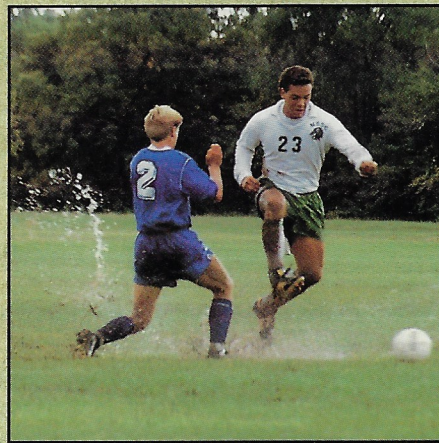
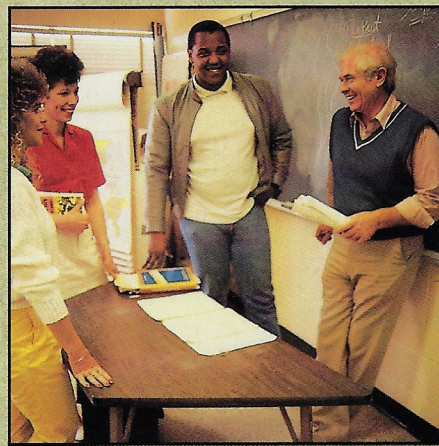
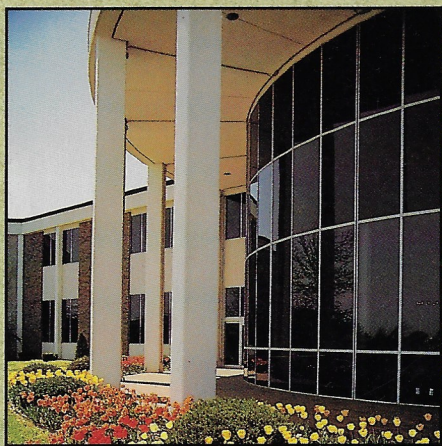


SOUTHERN

MISSOURI SOUTHERN STATE COLLEGE • JOPLIN



Catalog 1989-1991

Missouri Southern State College 1989-91 Catalog

From the President,

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body. Our students discover here one of the finest values in higher education anywhere, with quality academic programs, small-size classes, excellent and accessible professors, and reasonable cost.



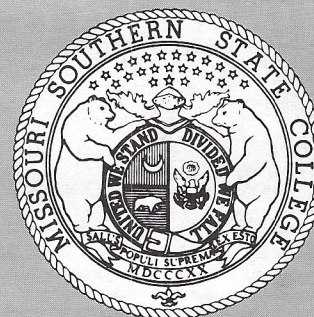
Our curriculum combines a liberal arts foundation with innovative professional directions to enable our graduates to adapt to constantly changing professions. More importantly, this approach helps them become more concerned citizens of the nation and the world.

Julio S. Leon

Julio S. Leon, President

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Board of Regents

Robert Higgins	1989
Russell G. Smith	1990
John O. Phelps	1991
Gilbert Roper	1992
Frank S. Dunaway	1993
Douglas K. Crandall	1994

Board of Trustees

Fred G. Hughes
Arthur Kungle, Sr.
Carolyn D. McKee
Donald R. Patterson
Elvin Ummel
Jerry E. Wells

Memberships

American Association of State
Colleges and Universities
American Association of Colleges for
Teacher Education
North Central Association
Sub-Committee on Institutions for
Teacher Education
Council for the Advancement and
Support of Education
American Assembly of Collegiate
Schools of Business

Accreditation

Committee on Allied Health
Education and Accreditation
North Central Association of Colleges
and Secondary Schools
National Council for the
Accreditation of Teacher
Education
Missouri State Department of
Education
American Dental Association
American Medical Association
National League for Nursing

Our Mission



Missouri Southern State College is a state-supported, comprehensive College offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to the liberal arts, to professional and pre-professional programs, and the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, historical, mathematical, scientific, and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the college complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the southwest Missouri region as well as serving as the intellectual, creative, and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

1. periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
2. continually assess the effectiveness of its programs in order to ensure their quality and integrity.

The Baccalaureate Degree

"The task of education is to ensure both a celebration of the individual, and an understanding of the interdependence of the individual within the larger community."

Bok

Scholars cite the following as the most common aims of a baccalaureate degree:

Undergraduates should acquire an ample store of knowledge, both in depth, by concentrating in a particular field, and in breadth, by devoting attention to several different disciplines. They should gain an ability to communicate with precision and style, a basic competence in quantitative skills, and a capacity to think clearly and critically. Students should also become acquainted with the important methods of inquiry and thought by which we acquire knowledge and understanding of nature, society, and ourselves. They should develop an awareness of other cultures with their differing values, traditions, and institutions. By having the chance to explore many opportunities, they should acquire lasting intellectual and cultural interests, gain in self-knowledge, and ultimately be able to make sound choices about their future lives and careers. Through working and living with a wide variety of fellow students, they should achieve greater social maturity and acquire a tolerance of human diversity.

These common human experiences which transcend culture and time should be the components of an undergraduate degree. The faculty of Missouri Southern has translated the above into the following goals for its Core Curriculum:

Communicating: The student can send and receive information in a variety of modes (written, graphic, oral, numeric, and symbolic), within a variety of settings (one-to-one, in small and large groups), and for a variety of purposes (for example, to inform, to understand, to persuade, and to analyze).

Solving Problems/Critical Thinking: The student can analyze a variety of problems (for example, scientific, social, personal), select or create solutions to problems, and implement solutions.

Clarifying Values: The student can identify personal values and the personal values of other individuals, understand how personal values develop, and analyze the implications of decisions made on the basis of personally held values.

Functioning Within Social Institutions: The student can identify those activities and institutions which constitute the social aspects of a culture (for example, governmental and economic systems, religion, marital and family institutions, employment, and civic volunteer and recreational organizations), understand the impact that social institutions have on individuals in a culture; and the student's own and others' personal functioning within social institutions.

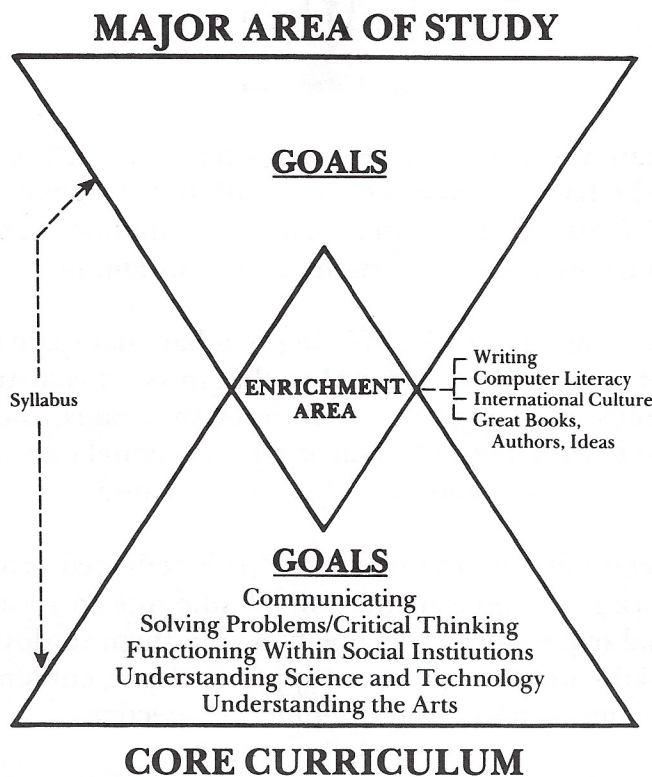
Understanding Science and Technology: The student can identify those activities and products which constitute the scientific/technological aspects of a culture (for example, transportation, housing, energy, processed food, clothing, health maintenance, entertainment and recreation, mood-alteration, national defense, communication and data processing), understand the impact of such activities and products on the individuals and the physical environment in a culture, and analyze

the uses of technological products in a culture and the student's personal use of such products.

Understanding the Arts: The student can identify those activities and products which constitute the artistic aspects of a culture (for example, graphic, art, music, drama, literature, dance, sculpture, film, and architecture); understand the impact art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within a culture and the student's personal use of art.

The curriculum at Missouri Southern is designed in such a manner that these human experiences permeate each class taught at the institution. The graphic illustrates the cohesiveness of the student experience.

The **Core Curriculum** is the base of the graphic. Selected courses are designed to emphasize one or more of the goals described above. All baccalaureate degree candidates are required to gain minimum competency in these experiences. (See Core Curriculum, page 34.)



A **Major** or an extended study unit is required of all students. The curriculum is designed to allow limited experimentation in selecting that major. However, if a student wishes to graduate within four years, a major should be selected by the end of the third semester. (See specific majors listed within the narration of the four schools.)

The **Enrichment Area** insures a cohesive, integrated program of study from the freshman to the senior year. The **course syllabus** requires the attention of the Core Curriculum goals in each course taught on campus. The **Writing Program** is designed to insure acceptable composition permeates the total course of study. The **Computer Literacy** requirement rests within the discipline. Students must perform this competency within their major. The citizens of the twenty-first century cannot hope to prosper without a thorough knowledge of the cultures of the world.

International Culture permeates the curriculum. The thrust of our **American Culture** component is to insure the preservation of our value system, our democratic ideals, and our way of life. The six required courses in the Core Curriculum are testimony to this strong belief. Western civilization is based upon a selected few **Great Books, Authors, and Ideas**. This curriculum is designed to insure competency in both content and process.

The graphic illustrates a cohesive, integrated curriculum of undergraduate education.

"To furnish the means of acquiring knowledge is . . . the greatest benefit that can be conferred upon mankind. It pro-longs life itself and enlarges the sphere of existence."

John Quincy Adams



Assessment of Outcomes

Program Assessment

As the mission of the College requires, the faculty of Missouri Southern State College studies carefully all data related to the performance of its students, graduates and programs in order to insure quality and integrity. By making such information public, the College attempts to reaffirm its commitment to accountability and to the constant search for improvement. Listed below are the results of several measures and programs that attest to the good results obtained by the College, its programs, its faculty and its graduates.

CORE CURRICULUM: The heart of a baccalaureate degree is its core curriculum component. As our mission states the College's Core Curriculum program is heavily grounded in the liberal arts and the sciences. As a part of a program of assessment of outcomes developed by the faculty, Missouri Southern students take the ACT-COMP exam (College Outcomes Measures Program, developed by the American College Testing Corporation). The ACT-COMP is designed to measure the impact of a liberal education on the students as they go through the program of studies and has been constructed to assess skills such as communicating, problem solving and clarifying values as well as the ability to understand science, the arts and functioning in social institutions. Moreover, test items require students to apply higher-order intellectual skills, such as analysis, synthesis, and evaluation, not just recognition and recall.

MISSOURI SOUTHERN STATE COLLEGE ACT-COMP EXAMINATION Total Score, Fall 1988

Class Sample	Total Score Mean	Percentile Freshman Norms (43,049)	Percentile Senior Norms (36,721)	Number Students Tested
Freshmen	172.7	49		715
Seniors	186.5		51	120

The data in the above table shows clearly that there is a very positive impact on MSSC students as a result of exposure to the College's Core Curriculum. The average total score gain from freshman to senior 13.8 is rather significant since research by ACT has shown that gains in score are not a function of maturity or age but rather a function of exposure to a program of education. When compared to the 43,049 freshmen from 92 colleges throughout the nation (colleges like Ball State University, Colorado State University, James Madison University, Northeast Missouri State University, University of Tennessee at Martin, Southeast Missouri State University, etc.), MSSC freshmen scored on the average better than 49 percent of the nationwide freshman sample. When compared to the 36,721 seniors who took the exam nationally, MSSC fresh-

men scored better than 51 percent of the the national sample of seniors.

These initial results are very encouraging to the faculty for they confirm the strength of our approach to a core curriculum. These and future data will provide the basis for continued improvement and refinement of our programs.

TEACHER EDUCATION; Graduates of Southern's teacher education program have been required to take the National Teachers Examination since 1969. Southern's graduates have consistently performed above the national averages. The test measures the relevant areas of Communication Skills, Knowledge of Subject Matter, Professional Knowledge, and there is also an Essay portion within the Communication Skills section that evaluates the students' writing ability.

NATIONAL TEACHERS EXAMINATION

Skills and Knowledge Tested	Spring 1987		Spring 1988	
	Score Mean	Percentile	Score Mean	Percentile
Communication Skills				
MSSC	663	56	662	55
National	658	46	657	40
General Knowledge				
MSSC	659	54	662	56
National	655	46	657	40
Professional Knowledge				
MSSC	663	65	665	72
National	658	48	657	44
Essay Examination				
MSSC	8.43	na	8.76	na
National	8.13	na	8.00	na

The table shows that Missouri Southern graduates perform significantly better than the national average in all categories of the test in both years, just as they have done in the past. For example, in the category of Professional Knowledge, 1988 Exam, MSSC graduates score better than 72 percent of the 60,000 graduates in the nation who took the exam.

Missouri Southern continues to attract and graduate well qualified students. In the statewide review of teacher education programs conducted by the Missouri Coordinating Board of Higher Education it was reported that of all the state colleges and universities, the ACT entrance examination average score of Missouri Southern secondary education majors, 20.6, was second only to the University of Missouri, Columbia at 22.0. The majority of the state colleges and universities also were in the 19-20 range. In general, this shows that our colleges are drawing teacher education majors from the top 40 percent of high school graduates.

NURSING: The graduates of the Nursing program at MSSC have consistently excelled in the State Board Examination required to become a Registered Nurse (RN). For example,

STATE BOARD OF NURSING EXAMINATION 1988

	Number Writing	Average Score	Percent Passed
National Norms	52,223	1942.9	84%
State Norms	1,214	1939.4	85%
MSSC Norms	35	2049.5	97%

a significantly greater percent of MSSC students passed with a higher score than the total population that took the examination.

ACCOUNTING Missouri Southern has always had a very strong accounting program. The College's graduates perform quite well in the Certified Public Accountant (CPA) examination. The latest data available from the National Association of State Boards of Accountancy show that for the spring 1985 CPA exam, 33 percent of Missouri Southern graduates who sat for the exam passed it. Nationally, of 58,140 candidates who took the exam, 24 percent passed.

Well over 100 MSSC graduates have become Certified Public Accountants including Jim Vonier, Gold Medalist

for the highest score in Missouri and among the top 50 in the nation, and Jim Brown, Silver Medalist, second highest score in Missouri. Hundreds of other accounting graduates are working for industry, business, and government.

DENTAL HYGIENE; Missouri Southern offers one of only three programs in dental hygiene in Missouri. As with the nursing program, the College's dental hygiene graduates traditionally score higher than the national average in the National Dental Hygiene Examination.

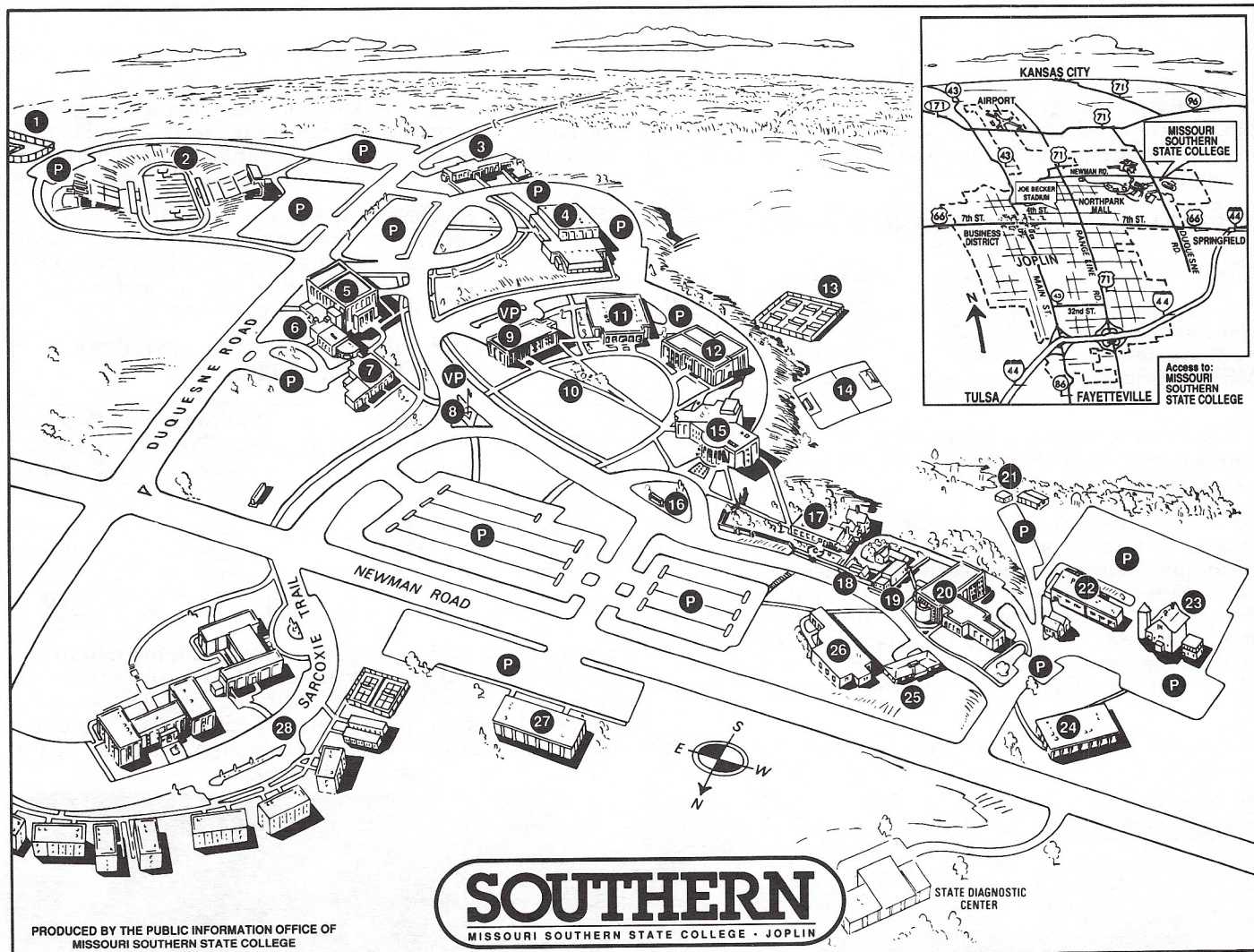
NATIONAL BOARD DENTAL HYGIENE EXAMINATION

Year	MSSC Mean Total Score	National Mean Total Score	Percent MSSC Passing
1984	229	227	100
1985	245	230	100
1986	232	228	100
1987	277	269	100
1988	268	265	100

MSSC dental hygiene graduates scored higher than the national average in virtually all the sub-categories to the examination as well. Those sub-categories are: anatomic sciences, pharmacology, periodontal disease, radiology, dental materials, biology, microbiology, instrument use, physiology, and plaque and caries.



Campus Directory



Building Directory

- 25 Alumni House**
Alumni/Development Office
Missouri Southern Foundation
- 27 Anderson Police Academy**
Campus Security, Firing Range
Law Enforcement, ROTC Departments
Regional Crime Laboratory
- 7 Art Building**
Spiva Art Center
- 23 Barn Theatre**
- 15 Billingsly Student Center**
Bookstore
Food Service
Meeting/Game Rooms
Placement Office
Public Information Office
Student Activities, Student Services
Ticket Office
- 21 Biology Pond**
Picnic Pavilion
Solar Energy Laboratory
- 16 Campus Directory**

- 9 Hearnes Hall**
Administrative Office
Admissions, Financial Aid
Continuing Education
Counseling
English Department
Registrar
- 2 Hughes Stadium**
- 26 Kuhn Hall**
Nursing Department
Student Health Center
- 1 Kungle Softball Field**
- 18 KXMS Radio**
- 20 Matthews Hall**
Business Administration, Computer Science,
Office Administration Departments
- 17 Mission Hills Mansion Complex**
Social Sciences Department
- 19 MSTV Studio**
Communications Department
- 6 Music Building**
Phinney Recital Hall
- 12 Reynolds Hall**
Biology, Mathematics,
Physical Sciences Departments

- 14 Soccer Field**
- 11 Spiva Library**
Learning Center
- 28 Student Residence Halls**
- 10 Stults Memorial Garden**
- 3 Taylor Hall**
Child Development Center
Education, Psychology Departments
- 5 Taylor Performing Arts Center**
Theatre Department
- 24 Technology Building**
Manufacturing Technology, Drafting/
Design, Dental Hygiene Departments
- 13 Tennis Courts**
- 22 Ummell Greenhouse**
Maintenance Office
Central Receiving
- 8 Veterans' Memorial**
- 4 Young Gymnasium**
Physical Education Department,
Varsity Athletics,
Swimming Pool/Racquetball
- P - Parking**
- VP - Visitor Parking**

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.

Missouri Southern State College Joplin, MO
64801-1595
(417) 625-9300

24 hr. answering service 782-MSSC
For admissions and financial aid information in
Missouri toll free 1-800-492-4811

Admission of students	Director of Admissions	625-9378
Alumni affairs	Director of Alumni Affairs	625-9396
Athletic activities	Director of Athletic	625-9317
Business affairs/purchases..	V. P. for Business Affairs	625-9381
Catalog and bulletins	Director of Admissions	625-9378
Credit evaluation and transcripts	Registrar	625-9389
Evening session.....	V. P. for Academic Affairs	625-9394
Faculty appointments.....	V. P. for Academic Affairs	625-9394
Financial aid.....	Office of Financial Aid	625-9325
Gifts and annuities	President	625-9500
Housing	Director of Housing	625-9522
Loans.....	Office of Financial Aid	625-9325
News/publications	Director of Public Information	625-9365
Orientation	Director of Orientation	625-9542
Placement services	Director of Placement Services	625-9343
Student employment.....	Office of Financial Aid	625-9325
Student organizations	Assistant Dean of Students	625-9392
Summer session	V. P. for Academic Affairs	625-9394
Testing	Director of Counseling	625-9324
Veterans affairs	Veterans Counselor	625-9529

Additional areas (for academic department numbers, see department information in each school):

Athletics (men)	625-9317
Athletics (women).....	625-9316
Bookstore	625-9380
Cafeteria	625-9546
Child Development Center	625-9360
Continuing Education	625-9384
Counseling.....	625-9324
Crime Laboratory	625-9382
Dental Hygiene Clinic	625-9379
Grammar Hotline	625-0171
Honors Program	625-9686
KXMS-FM.....	625-9356
Learning Center	625-9373
Library	625-9362
Maintenance	625-9387
Missouri Southern Foundation	625-9396
MSTV	625-9375
Purchasing	625-9388
Safety & Security	625-9391
School of	
Arts & Sciences	625-9385
Business Administration	625-9319
Education & Psychology	625-9314
Technology	625-9328
Sports Information	625-9359
Student Activities	625-9320
Swimming & Racquetball	625-9390
Ticket Office.....	625-9366
Vice President, Student Services.....	625-9392

Equal Opportunity

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex, or age in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1967.

Handicap Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Director of Counseling who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in the following situations:

1. The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and the most recent previous institution attended.
2. The disclosure is to school officials, including teachers, who have a legitimate educational interest.
3. The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
4. The disclosure is in connection with a health or safety emergency.
5. Other situations listed in 34CFR 99.31

Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.



Academic Calendar

June 1989						
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September 1989						
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October 1989						
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November 1989						
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1989 Summer Semester

June 2 Day & Evening Registration
 June 5 Classes Begin
 June 7 .. Last Day for Class Changes and Late Registration
 June 20 Withdrawal After This Date No Refund of Fees
 July 4 4th of July Holiday
 July 5 Last Day to Drop with a "W"
 July 26 Last Day of Classes
 July 27 Final Examinations

1989-90 Fall Semester

August 17 Faculty Study Conference
 August 17 Day Registration and Evening Registration
 August 18 Day Registration
 August 21 Classes Begin
 August 25 .Last Day for Class Changes & Late Registration
 September 4 Dismissal for Labor Day
 September 22 Withdrawal After This Date No Refund of Fees
 September 27 Senior Assessment Day
 October 20 Last day to Drop with a "W"
 November 22-24..... Dismissal for Thanksgiving Holiday
 November 27..... Classes Resume
 December 13 Last Day of Classes
 December 14 Reading Day - No Finals
 December 15-21 Final Examinations
 December 21 End of Semester

1989-90 Spring Semester

January 11 Faculty Study Conference
 January 11 Day and Evening Registration
 January 12 Day Registration
 January 15 Classes Begin
 January 19 Last Day for Class Changes & Late Registration
 February 16 Withdrawal After This Date No Refund of Fees
 February 21 Senior Assessment Day
 March 12-16 Spring Break
 March 23..... Last Day to Drop With a "W"
 May 9 Last Day of Classes
 May 10 Reading Day - No Finals
 May 11-17..... Final Examinations
 May 17 End of Second Semester
 May 19 Commencement

December 1989						
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March 1990						
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Academic Calendar

1990 Summer Semester

June 1 Day & Evening Registration
 June 4 Classes Begin
 June 6 .. Last Day for Class Changes and Late Registration
 June 19 Withdrawal After This Date No Refund of Fees
 July 4 4th of July Holiday
 July 5 Last Day to Drop with a "W"
 July 25 Last Day of Classes
 July 26 Final Examinations

1990-91 Fall Semester

August 16 Faculty Study Conference
 August 16 Day Registration and Evening Registration
 August 17 Day Registration
 August 20 Classes Begin
 August 24 .Last Day for Class Changes & Late Registration
 September 3 Dismissal for Labor Day
 September 21 Withdrawal After This Date No Refund of Fees

September 26 Senior Assessment Day
 October 19 Last day to Drop with a "W"
 November 21-23 Dismissal for Thanksgiving Holiday
 November 26 Classes Resume
 December 12 Last Day of Classes
 December 13 Reading Day - No Finals
 December 14-20 Final Examinations
 December 20 End of Semester

1990-91 Spring Semester

January 10 Faculty Study Conference
 January 10 Day and Evening Registration
 January 11 Day Registration
 January 14 Classes Begin
 January 18 Last Day for Class Changes & Late Registration

February 15 Withdrawal After This Date No Refund of Fees

February 20 Senior Assessment Day
 March 15 Last Day to Drop With a "W"
 March 18-22 Spring Break
 May 8 Last Day of Classes
 May 9 Reading Day - No Finals
 May 10-16 Final Examinations
 May 16 End of Second Semester
 May 18 Commencement

December 1990

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January 1991

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April 1991

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November 1990

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Fee Policies

Schedule of Fees

Missouri Southern operates a student accounts billing system. Under this system, the majority of fees will be billed after the first week of classes. There are at least three situations where payments will be required prior to that billing:

1. A \$25.00 deposit is required for the privilege of pre-enrolling. This deposit will be credited to the account when the bill is sent.
2. An additional \$25.00 deposit is required to check out rental books. This deposit is also credited to the account when billed.
3. If the student is living in the residence hall and using the installment plan, the first installment is due on the first day of registration for each semester.

It is extremely important for the student to realize that although the bill is not sent until after the first week, it is deemed that services are rendered as of the first day of class. Although the bill will be adjusted to reflect changes of schedule during the first week, students who have pre-enrolled or enrolled during regular registration incur a financial obligation unless they officially withdraw before the first day of class. Students withdrawing on or after the first day of class will be expected to pay fees subject to the refund policy as stated hereinafter.

Appeals concerning special problems pertaining to fees should be directed to the Vice President for Business Affairs in Hearnes Hall 200.

THE COLLEGE RESERVES THE RIGHT TO CHANGE FEES WITHOUT NOTICE.

Incidental Fees

FALL & SPRING 89-90	MISSOURI RESIDENT	NON - RESIDENT
1 thru 12 hours	\$40.50 per hour	\$81.00 per hour
13 and above	\$30.00 per each additional hour	\$30.00 per each additional hour
Summer Session 90	\$40.50 per hour	\$81.00 per hour

Other Fees

Application for Admission	\$ 10
Applied Music	\$ 45 per cr.hr.
Art Materials (Ceramic, sculpture, jewelry, selected)	\$ 10
Change of Class Schedule	\$ 5
Commencement	\$ 20 - 30
Laboratory Breakage and Materials	cost
Late Registration	\$ 10
National Teachers Examination (required for BSE major)	\$ 20
Parking (all students, each semester)	\$ 3
Radiologic Technology Special Fees	
First term	\$ 100
All other terms, each	\$ 40
Student Activity (full-time)	\$ 20
Part-time	\$ 10

Textbook Rental and Service Charge

(\$2 per hour refundable)	\$ 5 per cr. hr.
Transcript (first 2 without charge)	\$ 1
Residence Hall Cost (per semester)	\$1040
Refundable Security Deposit	\$ 75

Residence Hall charges may be paid in full or in three installments per semester. If the installment plan is chosen, a small administrative charge will be assessed and the following schedule will be observed.

FALL SEMESTER	SPRING SEMESTER
AUGUST 15.....\$350	JANUARY 10.....\$350
SEPTEMBER 15.....\$350	FEBRUARY 15.....\$350
OCTOBER 15.....\$350	MARCH 15.....\$350

APPLICATION FOR ADMISSION A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

APPLIED MUSIC For one 30-minute lesson per week in applied music, the usual fee is \$45 per credit hour.

ART MATERIALS This fee provides for materials such as clay, glazes, waxes, solder, and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors, or oils.

CHANGE OF CLASS SCHEDULE Students are charged \$5 for each class change made after classes begin (refer to College Calendar).

COMMENCEMENT Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown, and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

EVENING SESSION Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the Day Session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

LABORATORY BREAKAGE AND MATERIALS There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects.

LATE REGISTRATION A late registration fee is charged students who register after classwork begins. This fee is not refundable.

MISCELLANEOUS FEES Occasionally a fee is charged for classroom materials, such as subscriptions to a periodical, lane charges for bowling in physical education, film developing in photo-journalism, or purchase of paperback books in addition to the textbook rental.

STUDENT ACTIVITY This charge is to support activities of the Student Senate, the Campus Activities Board, and the Yearbook. This fee will allow admittance to most sports, theatre, and music events of the College, unless these activities are funded from other sources.

SUMMER SESSION Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

TEXTBOOK RENTAL AND INSTRUCTIONAL SERVICES Students enrolled during a semester pay a nonrefundable textbook rental fee (includes normal laboratory fees and cost of service on instructional equipment) and a textbook deposit. The deposit is refunded when the student has returned all books, materials, and equipment in satisfactory condition. (See page 12 for fees and refunds.) Books may be purchased at the end of the term for full retail price less an allowance for rental charges paid by the student.

TRANSCRIPTS Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each transcript.

Refund Policy

(Except for Residence Hall Charges)

Students enrolled in the fall and spring semester who drop out of the College before the sixth week of the semester are entitled to a partial refund of refundable fees. Refunds for partial drops will be computed using the same percentages. The refund must be claimed during the term for which the refund applies. The re-

fund will be computed as of the date the Registrar receives the withdrawal form completely and correctly executed, not as of the date the student stops attending classes.

The refund schedule is as follows:

Within the first and second weeks 80 percent refund

From the third through the fifth week 50 percent refund

After the fifth week No refund

Refunds for the summer term are as follows:

Within the first and second weeks 80 percent refund

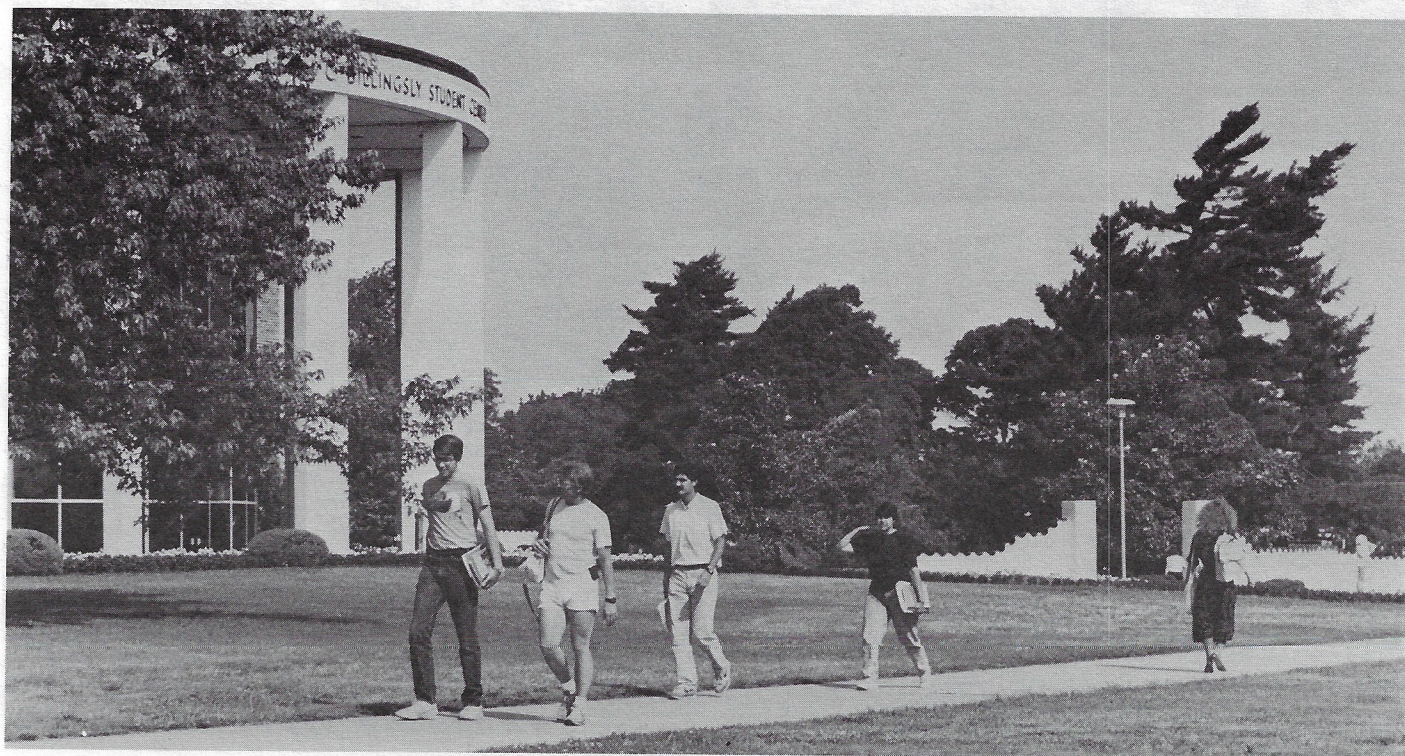
The third week 50 percent refund

After the third week No refund

Students are eligible for refunds only if they have followed official withdrawal procedures in the Registrar's office. Failure to attend classes does not constitute a withdrawal.

If the student has paid college costs and there is a refund, these monies will be refunded directly to the student after all charges have been applied to the account. However, if the college costs have been paid partially or fully by financial aid (scholarship, grant, or loan) or another source (i.e. Vocational Rehab), the refund will be returned to that financial aid or source up to 100 percent of the original aid amount. After restoring the financial aid or other source to its original amount, any excess of refund monies will be returned to the student.

Students who feel that individual circumstances warrant exceptions from this policy may appeal in writing to the Vice President for Business Affairs. This appeal must be made during the term for which the refund applies.



College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multi-discipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five to one a bond proposal that would assure the continuation of the junior college. During the next twenty-five years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mis-

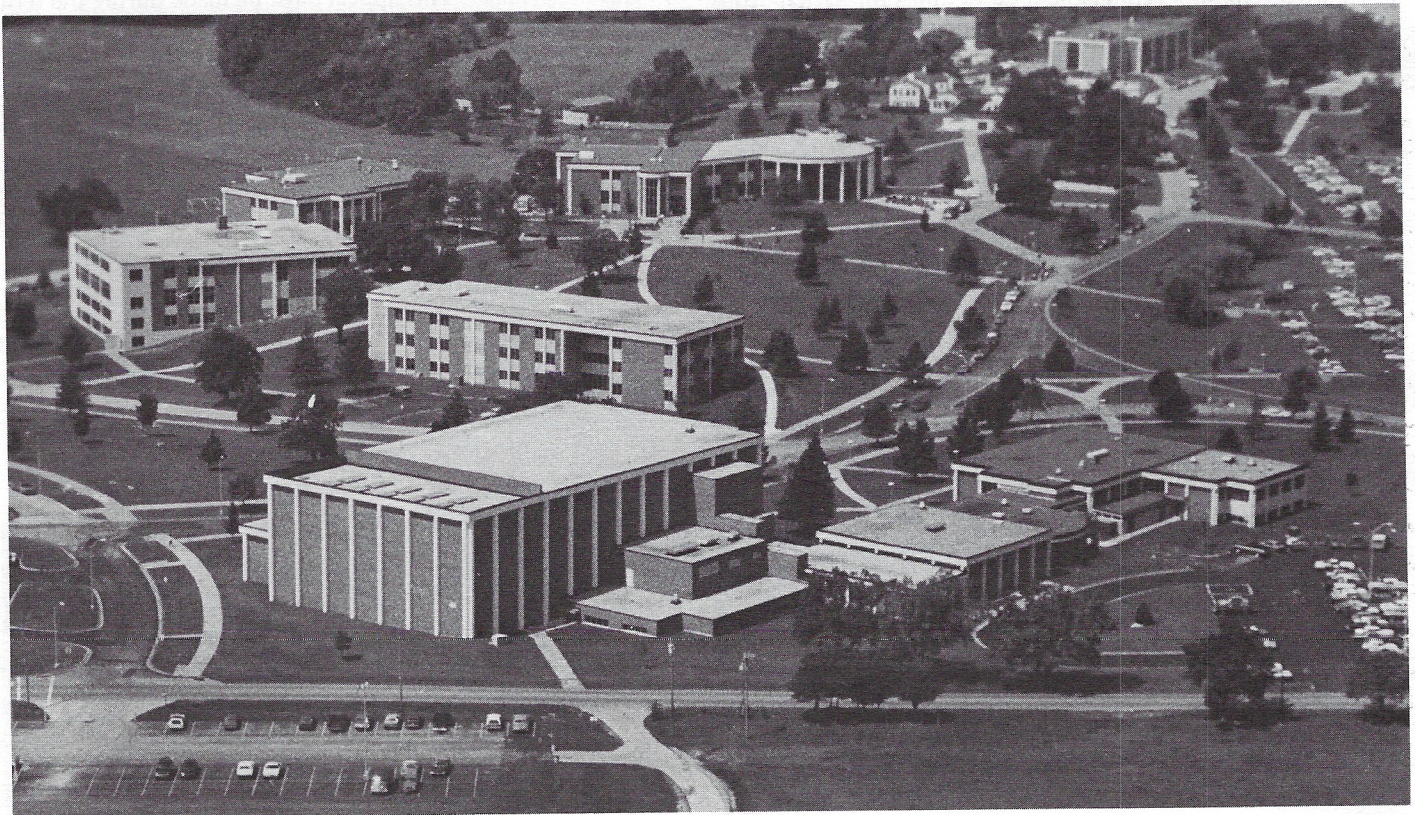
sion Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

Locale

The campus of Missouri Southern State College is located on 332 acres of the historic Mission Hills Farm at the northeast edge of Joplin. The former Mansion House and the old barn are still an integral part of the campus.

The College is in the center of a service area of approximately 350,000 people including parts of Arkansas, Kansas, and Oklahoma. This four-state area has highly diversified business and industry. In Joplin, cultural and recreational activities, major medical centers, and churches for all faiths abound. Within easy driving distance are large metropolitan centers and the great recreational area of the Ozarks.



Student Services

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Student Services

Vice President

Glenn D. Dolence

STAFF: Adams, Allman, Beard, Binns, Carlisle, Carnahan, Chism, Disharoon, Doman, Fowler, Frazier, Freeman, Gilbert, Gipson, Hartley, Humphrey, Karst, Nemeth, Oakes, Vermillion, Walker

PURPOSE AND OBJECTIVES

Because education does not take place solely in the classroom, the staff of the Department of Student Services provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, College Orientation, Residence Life, Student Activities, Student Health Services, and Intercollegiate Athletics. (For admissions requirements and procedures, see page 30 under Academic Regulations.)

With the goal of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students in the following ways:

1. providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
2. providing services which will assist in the self-development of each student and promote the understanding of individual purposes for being in college;
3. providing, through student government, student organizations, and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
4. providing an opportunity for those individuals who are capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans, and employment;
5. helping each student develop a sense of individual responsibility and self-discipline;
6. interpreting college objectives, policies, and rules to students and communicate student attitudes, opinions and activities to the facul-



ty, administration, and general public;

7. providing student health services that meet the emergency and temporary medical needs of all students;
8. providing an opportunity for students to gain information about the world of work and job opportunities; and
9. providing assistance and direction in matching student qualifications with job requirements.

College Orientation

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college personnel, services, policies, and procedures. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of the fall and spring semesters and includes the assignment of an academic advisor for each student. Members of the student services staff serve as academic advisors for students who have not declared an academic major. Special counseling pro-

grams are available for transfer and non-traditional students. The Orientation office is located in the Central Student Services Office, Suite 211, Billingsly Student Center.

Financial Aid

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds—from private, institutional, state and federal sources—are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability, and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding Financial Aid is subject to change without notice. Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

How to Apply for Financial Aid

1. All applicants should complete and submit the American College Testing Program Family Financial Statement to the ACT Operations Center in Iowa City Iowa, designating Missouri Southern (code 2304) to receive a copy of this report. This statement will generate a Pell Grant, Missouri Grant, and a comprehensive financial aid report.
2. Applicants should bring or mail all copies of the Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
3. Applicants should bring or mail a signed copy of their own and, if under 24, their parents' 1040 Income Tax Form to the Financial Aid Office. (This document must be on file before any money will be disbursed to the student.)
4. Applicants for work, loans, or other grants, should complete the Missouri Southern application which is included in the Family Financial Statement and return it to the Financial Aid Office. As soon as the necessary documents are on file, awards will be verified and processed.
5. Applicants for scholarships should complete the application enclosed in the ACT packet and return it to the Financial Aid Office prior to April 1.
6. Transfer students must obtain and submit transcripts of financial aid for each college previously attended.
7. Applicants for special programs should contact the Financial Aid Office for instructions.

Policies and Regulations

Academic Standards

The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary

semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 39) Standards of Progress Toward Graduation. After the second year, Federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet Federal guidelines. If the GPA falls below the

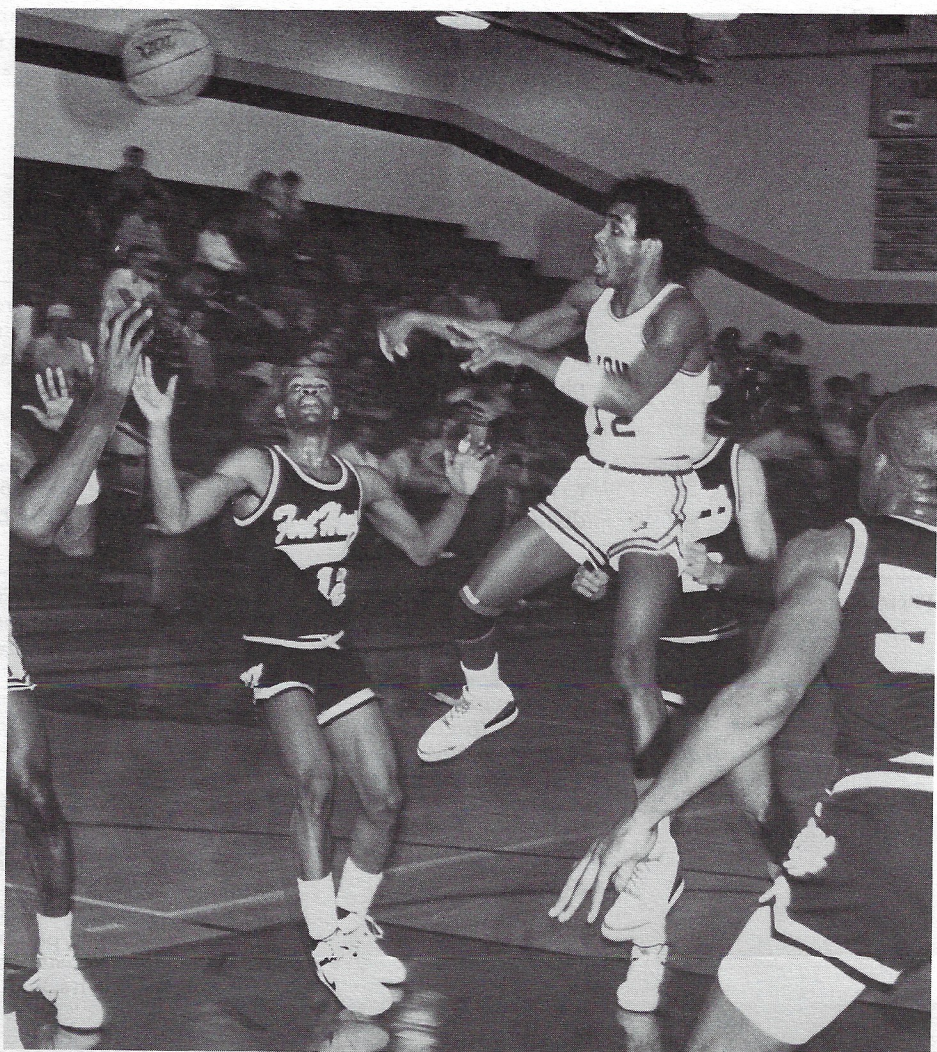
minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

TABLE OF MAXIMUM SEMESTERS OF AID ELIGIBILITY

Degree	Full-Time	3/4 Time	Half Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a baccalaureate degree.



Financial Aid Programs

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 28 or above on the Enhanced ACT Placement Test or with a 3.5 GPA in High school course work	Full tuition and fees for Enhanced ACT scores that fall within the 99th percentile.	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the College's service area	Current award is approximately 72% of instate tuition based on 12 hours	Upon recommendation of high school counselor, scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 24 composite score or higher on the Enhanced ACT	Current award is approximately 66% of instate tuition based on 12 hours	Have ACT Placement Test scores sent to Counseling Office.
Deans' Scholarships*	High school graduates who rank in the upper 15% of their graduating class and have a composite Enhanced ACT of 21 or above. The Deans' Scholarship can not be used in conjunction with the President's, Regents' or Honors Program Scholarships	Current value is approximately 49% of instate tuition based on 12 hours	Contact your high school counselor
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college	Current award is approximately 66% of instate tuition based on 12 hours	Complete a Junior College Transfer Application
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$1200 as determined by individual donors	Applications available in Financial Aid Office; application deadline <u>April 1</u>
Performing Aid Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students enrolled in Military Science	One-year, two-year, and three-year scholarships for tuition, lab fees, on-campus educational fees, and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year	Applications available from the Military Science Department

Financial Aid Programs

*Students receiving President's, Regents', Deans', and Junior College Transfer scholarships must enroll in and complete at least 12 hours with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

Grants	Who Is Eligible	How Much	How to Apply
Pell Grant	Federal Aid program based on financial need. All students should apply	Grants range from \$200 to \$2300 depending on where the student lives and educational costs	Complete American College Testing Programs Family Financial Statement or regular Pell Grant application
Missouri Student Grant	State funded program for Missouri residents; based on financial need	Maximum grant not to exceed one-half the cost of tuition and fees	ACT Family Financial Statement. Application deadline <u>April 30</u>
Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional financial need	Grants range from \$100 to \$4000 per academic year	ACT Family Financial Statement and Missouri Southern Financial Aid Application. Application deadline <u>April 30</u>
COPHE Teachers Scholarship	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office
Robert C. Byrd's Honors Scholarship	Graduating H.S. Seniors	\$1500	Byrd Scholarship Application
Missouri Higher Education Academic Scholarship	Graduating H.S. Seniors	\$2000	Mo. Higher Education Scholarship Application

Employment Programs	Who is Eligible	How Much	How to Apply
Work Study Program	Federally funded program providing on-campus employment for students with financial need	Minimum wage; weekly hours based on need	ACT Family Financial Statement and Missouri Southern Financial Aid application; application deadline <u>April 30</u>
Student Help Program	On-campus employment for students who are qualified to fill job openings	Minimum wage; weekly hours depend on operational need	Apply to Financial Aid Office or to individual departments on campus

Financial Aid Programs

Loans	Who Is Eligible	How Much	How to Apply
Perkins Loan	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Interest free loans repayable at 5% interest, \$30 per month, beginning nine months after student leaves school; deferrals for military service, Peace Corps, or Vista	Complete ACT Family Financial Statement Missouri Southern Financial Aid Application, Pell Grant Application; send copies of student's or parents' 1040 Income Tax forms to Financial Aid Office. Deadline <u>April 30</u>
Stafford Loans	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Funds to cover balance of educational costs after other awards have been made; 8% interest, \$50 per month repayment six months after student leaves school	Applications and special instructions available in Financial Aid Office. MSSC Application. Complete ACT Family Financial statement, send 1040 income tax forms to Financial Aid Office.
PLUS/SLS	Regular student must apply for Federal Aid programs	\$4000 per year	Applications and special instructions available in Financial Aid Office. MSSC application; complete ACT Family Financial Statement; send 1040 income tax forms to Financial Aid Office
Other Assistance	Who Is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded	Applications available in the Financial Aid Office
Agricultural Loans	Missouri residents whose parents derive a portion of their income from farming or fishery	Loans at 8% interest, payable at \$50 per month beginning six months after graduation	Contact: Missouri Department of Agriculture P.O. Box 630 Jefferson City, MO 65101

Financial Aid Programs

Loans	Who Is Eligible	How Much	How to Apply
Veterans' Administration Benefits	Veterans who entered the military before Jan. 1, 1977, and served more than six months active duty, have been out of the service less than 10 years, and have other than a dishonorable discharge. Also, veterans with service-connected disability of 10% or more and wives, husbands, and children of veterans who have total and permanent disability and widows, widowers, and children of veterans who died of service-related causes	\$376 per month for single veterans who are full-time students; increases for dependents	Contact: Veterans' Administration Officer, Veterans' representative on campus, or Veterans' Administration regional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood	Awards range from partial tuition to full tuition and fees	Contact: Bureau of Indian Affairs Higher Education Office Federal Building, Room 300 Muskogee, OK 74001
Vocational Rehabilitation	Students with any disability	Awards range from \$25 to full tuition, fees, room and board	Contact: Vocational Rehabilitation Office 1609 E. 20th Joplin, MO 64801

All financial assistance is subject to change without notice to meet federal regulations and availability of funds.

Student Services

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category	Hours per Semester	Hours to be Completed
Full-time	12 or more	21 hours per year
3/4time	9 to 11	15 hours per year
Half time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses, and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.

All aid will terminate immediately under the following situations:

1. withdrawal from all classes,
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee, or

3. default on any federally funded student loan or overpayment of any Title IV funds.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major, or circumstances beyond the student's control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major, or other extenuating circumstances. The Director will determine the validity of these circumstances provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school,
2. a significant change in income,
3. added or dropped classes during the semester,
4. a name change,
5. change of address or change of parents' address,
6. transfer to another college.

Work Study recipients must contact the Financial Aid Office for job placement



within five (5) days of the beginning of the semester.

Financial aid checks must be signed by the persons receiving aid. No other person may sign the check for the recipient.

Checks must be picked up in person by students presenting a student I.D.

Veterans must sign up for Veterans' Benefits at the beginning of each semester.

Missouri Southern operates on a financial aid data entry system which requires the student's signature for any funds disbursed. After all fees and charges are paid, any balance of funds from a grant, loan, or other award is paid to the student by the end of the third week of school. Checks are issued in the Business Office. Failure to pick up a check within two weeks of the date indicated by the Financial Aid Office may result in cancellation of the check.

Counseling Services

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearnest Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories, and referral services.

Testing Services

Missouri Southern is a national testing center for the following examinations:

1. ACT (Placement test for college entrance)
2. NTE (National Teachers Exam)
3. EESN (Entrance Examination for Schools of Nursing)
4. DHAT (Dental Hygiene Aptitude Test)
5. MAT (Miller's Analogy Test for graduate school)
6. CLEP (College Level Examinations Program)

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have TOFEL score of 535, will take, by appointment, the Michigan Test of English Language Proficiency.

The CLEP (College Level Examination Program) is administered 10 times per year to allow students to receive proficiency credit for General Education and other Freshman/Sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from accredited institutions.

Counselors for Special Students

Certified counselors and advisors are available for international students, veterans and handicapped students. The Foreign Student Advisor has information and forms required by the U.S. Office of Immigration and Naturalization. The advisor is the certifying official for the College, concerning immigration matters. Students should contact the international student advisor regarding visa renewal, transferring to other schools, etc.

The Veterans' Counselor is the certifying official for the College and the contact person for Veterans' educational benefits counseling under Chapters 30, 31, 32, 34, or 35 and 106. Veterans' enrollment must be certified each semester and the Veterans' Counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist physically handicapped students with early en-

rollment, assistance in overcoming barrier problems, Readers for the Blind Program, and other matters of concern to these students.

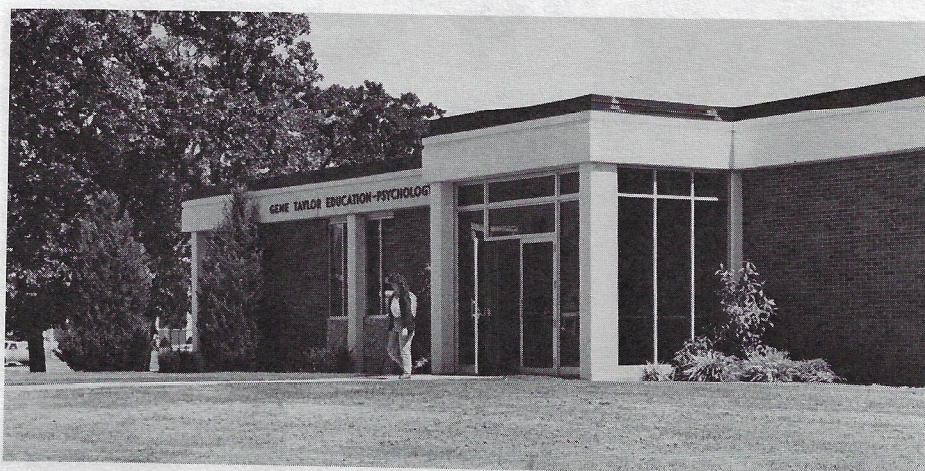
Academic/Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest, ability, and personality inventories are used by the counseling staff to assist in career decision-making. A library of career materials is also available to assist students in making academic/career decisions.

The DISCOVER program, a computer based career guidance system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations, and selecting appropriate strategies to reach career plans.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return to Learn" course is offered each semester as the orientation course for returning adult students. SAGE, an organization for adult students, assists the expanding adult segment of the student population. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearnest Hall.



Student Activities

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty, and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

Campus Activities Board (CAB)

Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational, and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body.

The responsibility for student government rests not only with the student officers, boards, and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.

Career Planning and Placement

The Career Planning and Placement Office, located in Room 207 of Billingsly Student Center, provides many services to Missouri Southern students and graduates.

While enrolled in college, students may ask the staff for help in finding part-time employment. Prospective graduates and alumni may enlist the staff's help in finding full-time employment. Representatives of business, industry, and educational institutions are invited to the campus to interview students for possible job openings. Students are encouraged to visit the Placement Office regularly and to take advantage of on-campus interviews, vacancy listings, career fairs, and assistance in developing interviewing skills and preparing resumes.

The Placement Office also maintains a ca-

reer library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career.

Residence Halls

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life."

The College provides residence hall accommodations and meals for over 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional head residents and 19 para-professional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social, and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities, and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application-Contract for Room and Board Accommodations from the Missouri Southern Housing Office. The completed Application-Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the



College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of, or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

Student Health Services

The faculty and staff of Missouri Southern are interested in students' physical and emotional well-being as well as their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. All currently enrolled students are eligible for treatment at the center. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions, and ambulance service.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

Intercollegiate Athletics

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies, and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports

must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, and cross-country.

Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is

found in the Student Handbook which may be obtained from the Student Services Central Office, Billingsly Student Center 211. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Handbook which is available from the Director of Residential Life.

Student Identification Cards

The student identification card is produced by the College and issued to all full-time students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. is free; replacement cost for lost cards is \$5.00.



Academic Affairs

A series of five horizontal lines of varying thicknesses, with the thickest line at the top and the others becoming progressively thinner towards the bottom.

Academic Affairs

Vice President

Floyd E. Belk,

Staff: Ray A. Malzahn, Dean, School of Arts and Sciences; Robert C. Brown, Dean, School of Business; Edward P. Meryman, Dean, School of Education and Psychology; James K. Maupin, Dean, School of Technology; Delores A. Honey, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles Kemp, Head Librarian; Eugene C. Mouser, Registrar; Dale W. Simpson, Writing Coordinator; Betty R. Israel, Director of the Assessment Center; Myrna Dolence, Director of the Learning Center; and David L. Ackiss, Honors Program Director.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Learning Center, the Continuing Education Program, the Writing Program, the Assessment Program, and all academic units are under its direction.

Spiva Library

Head Librarian

Charles Kemp

Staff: Mary Lou Dove, Gaye Pate, Robert Black, Theresa Connors, Don Mosley, and Charles Nodler.

The Library consists of two units:

1. The Library
2. The Audio-Visual Center

The Library The Spiva Library is the major information resource on campus with a collection that includes over 180,000 volumes; 1,300 periodical titles; a selective state and federal government documents depository; a law collection; and over 540,000 items on microfiche or microfilm. Collections in the archival area include the papers of Congressman Gene Taylor, maps of the tri-state mining area, and the papers of Arrell Gibson, a noted western historian. The Collections are housed in a building that was constructed in 1967. There have been two renovations of the building since then, with the latest being in 1987. The staff is composed of six librarians, 10 support staff members, and 30 part-time student staff members.

The teaching function of the library is considered of great importance. Tours of

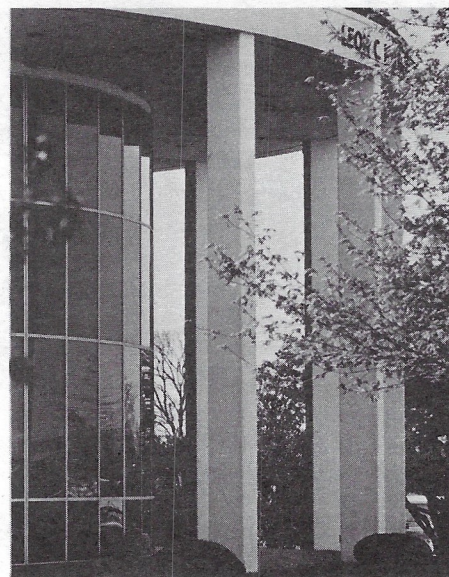
the library are given and every effort is made to ensure that students learn how to conduct research in the library effectively. A reference staff is available to teach patrons how to use information resources and to assist patrons with their research and information needs.

Modern technology is used heavily in the Spiva Library. Inter-library loan requests are sent and received via computer terminals. Locations of requested materials can be determined in minutes through the OCLC system which has a database of 268,000,000 locations listings in over 8,000 member libraries. A telefacsimile machine service is used to rapidly send and receive photocopies of periodical articles.

The collection at Spiva Library can be accessed from terminal locations across campus and from home computers equipped with modems through the LION Public Access catalog. The LION, which is an acronym for Library Information On-Line, will eventually replace the card catalog. It is the first module to be implemented of an integrated library automation package from NOTIS, INC. The library and the Computer Center personnel are jointly planning and implementing this major system which will include automation of all library functions including circulation, cataloging, acquisitions, and serials.

The compact disk technology has made retrieval of periodical subject articles so easy it has become the preferred method of researching periodical literature for many students. Several major indexes such as ERIC and Reader's Guide to Periodical Literature are available in this format, so that all subject areas have an indexing or abstracting service available. In addition, the Library Reference Staff will do on-line searches through BRS or DIALOG for library patrons. With all of these information sources available, students at Missouri Southern never lack information for research papers.

The new methods of information retrieval make library research easier than it has ever been. When the new technology is combined with a library staff whose major goal is excellent library service, the net result is that students at Southern can look forward to a pleasant and rewarding experience in the Spiva Library.



The Audio-Visual Center Located on the fourth floor, the AVC is the audio-visual materials component of Spiva Library. The materials include curriculum textbooks, children and juvenile books, video and audio tape materials, films, slides, kits and other types of instructional materials. The materials in the AVC are cataloged and made available through the LION. The staff provide limited production services such as making overhead transparencies and copying audio-tapes. The Center includes the appropriate playback equipment for the software. Both IBM and Apple microcomputers are available for students to use. Hardware is available in the various schools and departments, so only a limited number of equipment items such as slide projectors, video monitors and players, and tape recorders are available for scheduling through the Audio-Visual Center.

The Honors Program

Delores Honey, Chairperson, Honors Committee

David L. Ackiss, Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Features of the program are as follows:

1. All full-time students admitted to the Honors Program will receive a

four-year renewable scholarship that covers tuition, book rental fees, and student activity fees for fall, spring, and summer semesters. Additional scholarship funds to cover room and board are available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.

2. Honors sections of selected general education courses are available to Honors Students.
3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individualized advising, colloquia, guest speakers, and exploration of professional and graduate study opportunities.
4. Recognition is given to Honors Program members who successfully complete the program by a notation to that effect on their permanent records.

Who is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the Enhanced ACT of 28 or above, or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work, are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay, and an interview are required of applicants.

Students who have already completed at least 15 hours of course work with a grade point average of 3.5 or above at Southern, or any other accredited college or university, also are invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595.

Summer Study at Oxford

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade average. Qualified students select courses offered in three week sessions on various subjects. Southern grants partial scholarships to selected students each year. Honors Program students are given priority consideration in the selection process. Faculty members are also chosen to take part in the program. There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.

The Division of Continuing Education

R. Jerry Williams, Director

The Division of Continuing Education was initiated in the fall of 1974. This academic division embraces the life-long learning concept by providing a wide range of credit and non-credit courses which supplement the college curriculum described in the institutional catalog. The Continuing Education curriculum has proven to be especially appealing to the non-traditional students. During the first 12 years approximately 300 different courses have attracted nearly 30,000 students.

In order to meet the ongoing and newly emerging educational needs of the people of the college service area, approximately 75 different offerings of variable lengths are scheduled to start at various times during each academic year. These courses are especially tailored to accommodate a wide variety of educational needs and interests. Both vocational and avocational offerings are available. All students pay moderate fees which are used to defray the cost of the instruction. Continuing education courses offered for semester hour credit may be converted to regular college

credit when a General Academic Petition is approved by the School Dean of the student's degree area. A permanent record (transcript) is maintained by the Continuing Education office for each student enrolling for continuing education semester hour credit. Students wanting copies of their records should contact the Continuing Education office.

Additional information may be obtained by contacting the Continuing Education office located in Room 103 of Hearn Hall.

The Learning Center

Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Mike Rodgers, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

1. computer lab for all students;
2. computer assisted programs in reading and writing;
3. audio-visual learning aids;
4. supplemental instruction in designated classes;
5. peer and professional tutoring;
6. counseling.

Required classes in composition and reading, designed to meet the needs of under-prepared students, are offered through the Center. Additional classes in reading and study skills are available.

The Assessment Center

Betty R. Israel, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the core curriculum and the major will be assessed each year. Weaknesses within programs can be judged and strengthened and strong programs can be made stronger. Student opinionnaires will be given each two years.

The Writing Program

Dale W. Simpson, Coordinator

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree program. The director and a faculty committee advises the Vice President for Academic Affairs on the development and supervision of the program.

Academic Regulations

Missouri Southern faculty want their students to succeed, so students need to prepare themselves academically for college classes. The following high school studies are recommended for college bound students. Experience has shown that students who have completed these courses are most likely to succeed in college:

1. Language Arts: 4 years of English which must include 2 years of composition plus 1 year selected from speech, journalism, literature, or foreign language.
Total—4 Units*
2. Mathematics: 1 year of algebra and 2 years selected from advanced algebra, geometry, trigonometry, calculus, or computer science.
Total—3 Units*
3. Sciences: such as biology, physics, chemistry, earth sciences, and life sciences. (General Science does not count.)
Total—3 Units*
4. Social Sciences: such as American Government, American History, World History, psychology, sociology, economics, or anthropology.
Total—2 Units*
5. Three additional units selected from: foreign language, mathematics, physical or biological science, or social science.
Total—3 Units*

*Carnegie Unit

Admissions

Students wishing to be admitted to Missouri Southern will be placed into one of three classifications:

1. First Time College Students
2. Students With Previous College Experience
3. Special Program Admissions

FIRST TIME COLLEGE STUDENTS

Students who are entering college for the first time must possess certain educational requirements before they are allowed to enroll. First time college students are granted admission in the following manner:

Unconditional Admission: Students who have a composite score of 25 or above on the Enhanced ACT admissions test and 30/Academic Regulations

rank in the upper 50th percentile of their graduating class will be admitted unconditionally.

Regular Admission: Students who have a composite score of 25 or above and rank in the lower one-half of their high school graduating class, or students who score between 18 and 24 on the Enhanced ACT test shall be granted regular admission. (Regular admission students may be required to take remedial classes if their English, mathematics, or reading scores are low.)

Regular (Conditional) Admission: Students who have a composite score of 16 or 17, and students who score below 16 and are in the upper 50th percentile of their high school graduating class, shall be admitted conditionally. Traditionally, students in this category are required to take remedial English, mathematics and/or reading. Students in this category must reduce all deficiencies within the first academic year.

Admission Denied: Students who have a composite score of 15 or below on the Enhanced ACT admissions test and are ranked in the lower one half of their high school graduating class are denied admission. Such denial may be appealed to the Admissions Committee.

G.E.D. students must score 16 or above on the Enhanced ACT Test or they are denied admission. Such denial may not be appealed. (Students are advised to take the Enhanced ACT Test again.)

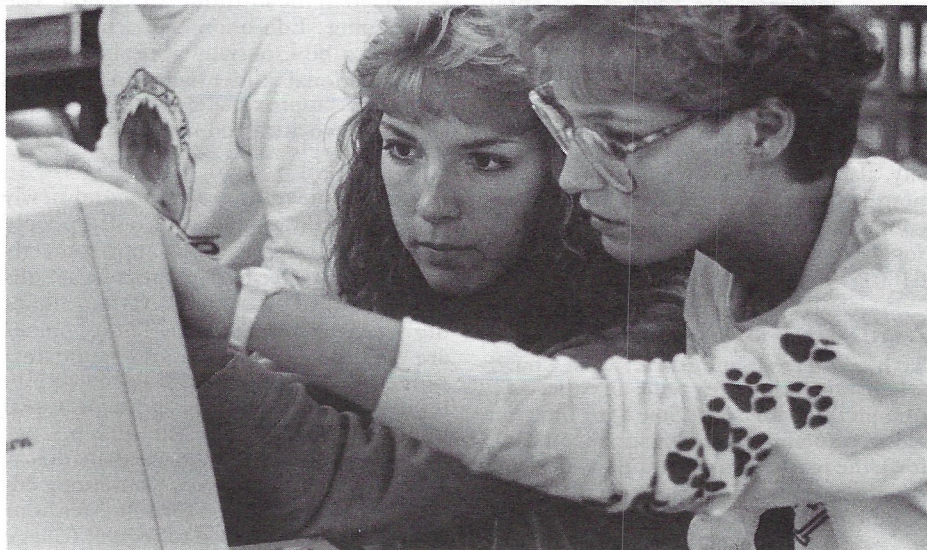
STUDENTS WITH PREVIOUS COLLEGE EXPERIENCE

Former MSSC Students Former Missouri Southern State College, Jasper County Junior College, and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.

Transfer Students Students transferring from another collegiate institution must present credentials listed on page 32, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, (c) pay a \$10 nonrefundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Students seeking admission from other colleges with 55 transfer credit hours or more must present a minimum "C" (2.0 on a 4.0 scale) average.

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Transient Students Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 nonrefundable application fee, and a



statement of good standing from the authorized college official or Registrar of the student's home college or university.

SPECIAL PROGRAM ADMISSIONS

International Students International Students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students (page 31), international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study, and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75 percentile on the Michigan Test for English as a Foreign Language, or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

Fall Semester—July 1

Spring Semester—November 1

Summer Semester—April 1

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75 percentile on the Michigan Test is required of these students.

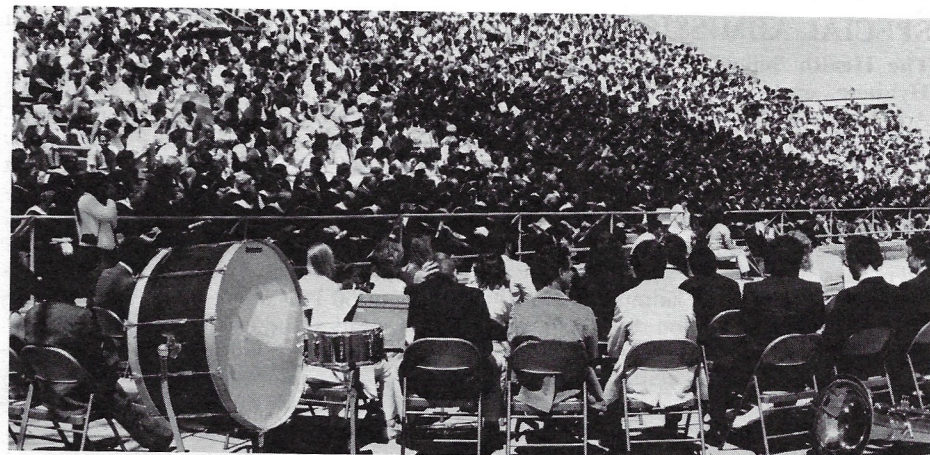
Continuing Education

Off Campus Extension. Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

Off Campus—Credit. The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

Off or On Campus—Non-Credit. Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of the instructor.

Credit-in-Escrow The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommenda-



tion of the high school principal. Credit held in escrow will not be transferred to another college or university. When the student enrolls as a regular college student and completes 12 semester credit hours at Missouri Southern, the credit-in-escrow will be placed on the permanent academic record and may apply toward graduation requirements.

Special A person who has not graduated from high school and has an Enhanced ACT test score of 16 or above on file at the College may be admitted on a probational basis. A student admitted under this regulation must make a "C" average over the first semester's work to be eligible to return for the second semester. Upon successful completion of 30 semester hours a student's status will change from "special" to "regular."

Credentials Required for Admission

REGULAR ADMISSION

- (1) **High School Transcript** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) **Placement Test** Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented, within three years from the time the test was taken, as an admission cre-

dential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.

- (3) **Application** The application for admission must be completed one week before the first day of enrollment (see college calendar). This includes all credentials required by the Admissions Office.
- (4) **Application Fee** A fee of \$10 must be included with the application for admission. (This fee is nonrefundable and nonapplicable to other college fees.)
- (5) **Admission for Nonresidents of Missouri** A nonresident of Missouri is required to submit the same credentials as a resident.
- (6) **Veterans** Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of enrollment.
- (7) **Miscellaneous Requirements** Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri Southern within one year after making application, must submit new credentials when seeking admission again.

SPECIAL ADMISSIONS

The Health Sciences (Nursing, Dental Hygiene, and Radiologic Technology)

Admission to Missouri Southern does not automatically confer admission to the nursing program, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See nursing department page 145, dental hygiene department page 137, or radiologic technology page 147 under affiliated programs for full information on admission and acceptance criteria.

Honors Program This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by *invitation*. Interested students should ask the Director of Admissions for an Honors Application form.

Temporary In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status, and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Return to Learn Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group, and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admit-

ted under the "special" category listed above.

60 Plus This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

Placement, Examinations, Credits

Resident Credits from Institutions of Equal Standing with Missouri Southern

Credits transferred from accredited colleges will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one-half the major course requirements for a department unless the approval of the Vice President for Academic Affairs is obtained.

Transfer of Resident Credits from a Junior College

Credits will be accepted by transfer from a junior college to meet lower division requirements only. This means students will not receive credit by transfer from a junior college for more than 64 hours. A minimum of 60 semester hours must be earned in a senior college. Students who have completed a college transfer course culminating in an Associate of Arts Degree from an accredited Missouri junior college are assumed to have fulfilled freshman and sophomore general education requirements. Students will be directed immediately into their major areas according to their preparation. Transfer students who have not completed the Associate of Arts Degree as stated above will have their courses evaluated individually.

In most cases, not more than 64 semester

hours of credit may be accepted as advanced standing from a junior college. If work is combined from a junior college and a four-year college, the amount of credit accepted at the time of completing the junior college work usually may not exceed 64 semester hours. After a student has attained 64 semester hours, credit should not be taken at a junior college. Transfer students must take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for an advanced examination, a student must have the following qualifications in addition to those listed above:

- be enrolled in college at the time of the examination;
- not have taken an examination over the course within the preceding six months;
- not have credit in a more advanced course in the same field;
- be working toward a degree at Missouri Southern State College;
- have the approval of the head of the department in which the course is offered.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.

Students may initiate an examination in the CLEP Program by contacting the Director of Counseling and Testing. A student may initiate a departmental test with the head of the department. After the student has taken the CLEP Examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice



President for Academic Affairs and the student. If performance is equated as a "C" grade, the Registrar will record the credit.

Missouri Southern participates in the CLEP General Examination Program. Entering freshmen who have delayed college entrance by as many as three years since high school graduation may take the CLEP General Examination.

Three to six hours may be awarded in each of the five test areas. Credit will be granted only if the score is 500 or above on the mathematics, humanities, natural sciences, and social sciences and history. A score of 610 will be required on the English examination.

Advance Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4, or 5. No more than six hours of credit will be accepted with this program.

Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken, or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must:

- (a) be enrolled in college at the time the examination is taken;
- (b) present the necessary evidence to prove that the course was taken;
- (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered;
- (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer, and evaluate the examination. The re-

sult is reported to the Registrar who records the grade if it is "C" or above.

The Honors Program

Entering students will be governed by policies clarified on page 28 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Graduation

- A. Graduation Requirements**—The responsibility for satisfying all requirements for a degree rests with the student. Advisors, faculty members, and administrators offer help to the student in meeting this responsibility.
- B. Time of Graduation**—A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- C. Placement Services**—Each degree candidate must register in the Placement Office.
- D. Degree Candidacy Application**—Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- E. Senior Assessment**—All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.
- F. Educational Methods Course**—These courses, including student teaching, are applicable only to the bachelor of science in education degree.
- G. Nursing Courses**—Task-oriented nursing courses are applicable only to the nursing major.
- H. Correspondence, Extension, and TV Course Credit**—A maximum of 12 semester hours of correspondence, extension, and TV course credit may be considered for a degree.

Baccalaureate Degree Requirements

- A. Residence**—The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)
- B. Credit Hours**—At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. Grade Point Average**—The following grade point averages are required for graduation:
1. a 2.0 cumulative grade point average for all credit hours attempted;
 2. a 2.0 grade point average within the major; (Exception: selected majors may have other requirements.)
 3. at least a 2.0 grade point average for all courses taken in the major department;
 4. The Teacher Education Program requires a grade point average of 2.5 and an ACT composite score of 18 or an SAT (vm) of 800 for both.
- D. Upper-Division Hours**—A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs. Within the 40 upper-division hours students must choose one course selected for area 4 or area 5 of the Core Curriculum program.
- E. Writing Competency**—Five courses of writing composition will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Competency courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.)
- F. Foreign Language**—All students expecting to graduate with a bachelor of arts degree must successfully complete 6-10 hours of the same foreign language as a part of the graduation requirements.
- G. Special Education**—All students ex-

pecting to graduate with a bachelor of science education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.

- H. Computer Literacy**—All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem-solving within their discipline. Department heads will certify the competency of the students in their disciplines.

- I. Major Field**—A minimum of one half of the upper division courses that are required for the major must be earned in residence at Missouri Southern.

- J. Core Curriculum Requirements**—Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:



BACCALAUREATE DEGREE

	Credit Hours Required
Area 1. Basic Requirements*	
A. English Composition	
Freshman Year (Eng 101 and 102 or Eng 103 (6) (or achievement in the required competency level can be done in 3 hours (Eng 111).	6
B. Communication	3
Comm 100 Oral Communication	
C. **Mathematics (110 or above)	(3)

D. Physical Education	3
**HPER 103 Lifetime Wellness	(2)
**HPER 101 Activities	(1)
Total for Area 1	15 Hours

Area 2. Humanities and Fine Arts	Credit Hours Required
A. Select one	3
Art 110 Art Appreciation	(3)
Mus 110 Music Appreciation	(3)
Th 110 Theatre Appreciation	(3)
B. Select one	(3)
Eng 261,262 World Masterpieces	(3)
Eng 271,272 English Masterpieces	(3)
Eng 281,282 American Literature	(3)
C. Select one	(3)
Eng 150 Introduction to Literature	(3)
Eng 305 Short Story	(3)
Eng 261,262 World Masterpieces	(3)
Eng 271,272 English Masterpieces	(3)
Eng 281,282 American Literature	(3)
Phil 201 Introduction to Philosophy	(3)
Art 110 Art Appreciation	(3)
Mus 110 Music Appreciation	(3)
Th 110 Theatre Appreciation	(3)
Total For Area 2	9 Hours



Area 3. Natural Science and Behavioral Sciences*

- A. ****Bio 101 General Biology** 4
or
****Bio 110 Man and Environment** (4)
B. ****Psy 100 Fundamentals of Physical Science** 5
C. **Select one** 3
****Psy 100 General Psychology** (3)
Soc 110 Sociology (3)

Total For Area 3 12 Hours

Area 4. American Cultural Studies*

- A. **Hist 110 US History 1492-1877** 3
and
Hist 120 US History 1877-Present 3
or
Hist 320 US History 1877-Present 3
PSc 120 Gov't: U.S., State, & Local 3
Econ 180 Am Economic System 3
(Majors and Minors in Business should take Econ 201)

Total For Area 4 12 Hours

Area 5. International Cultural Studies*

- A. **Select one:** 3
Hist 130 or 140 Western Civ (3)
Geog 211 Regions and Nations (3)
Soc 155 Intro to Anthropology (3)
1877-Present (3)
Foreign Language (5)
GB 310 International Business (3)
Soc 342 Comparative Cultures (3)
Comm 305 Intercultural Communication (3)

Total for Area 5 3 Hours

TOTAL CORE CURRICULUM REQUIREMENTS 51 Hours

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate of Arts Degree

- A. **Credit Hours**—A minimum 64 semester hours must be completed.
B. **Residence**—The last 15 semester hours must be completed in residence at Missouri Southern.
C. **Grade Point Average**—Minimum cumulative and major field grade point average must be 2.0.
D. **Major Field**—The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the advisor and the Vice President for Academic Affairs.
E. **Core Curriculum Requirements**—The degree requires completion of the following Core Curriculum requirements:

ASSOCIATE OF ARTS

Area 1. Basic Requirements*

- A. **English Composition** Credit Hours Required 6
Freshman year (Eng 101 and Eng 102 or Eng 103 (6) or achievement in the required competency level can be done in 3 hours (Eng 111)
B. ****Comm 100 Oral Communication** 3
C. ****Mathematics (Math 110 or above)** 3
D. **Physical Education** 3
****HPER 103 Lifetime Wellness** (2)
****HPER 101 Activities** (1)

Total for Area 1 15 Hours

Area 2. Humanities and Fine Arts*

- A. **Select one** 3
Art 110 Art Appreciation (3)
Mus 110 Music Appreciation (3)
Th 110 Theatre Appreciation (3)
B. **Select one** 3
Eng 261,262 World Masterpieces (3)
Eng 271,272 English Masterpieces (3)

Eng 281,282 American Literature (3)

C. **Select one** 3

- Eng 150 Introduction to Literature** (3)
Eng 305 Short Story (3)
Eng 261,262 World Masterpieces (3)
Eng 271,272 English Masterpieces (3)
Eng 281,282 American Literature (3)
Phil 201 Introduction to Philosophy (3)
Art 110 Art Appreciation (3)
Mus 110 Music Appreciation (3)
Th 110 Theatre Appreciation (3)
Foreign Language (5)

Total for Area 2 9 Hours

Area 3. Natural Science*

- A. ****Bio 101 General Biology** 4
or
****Bio 110 Man and Environment** 4
or
****Phy 100 Fundamentals of Physical Science** 5

Total for Area 3 9 Hours



Academic Regulations

Area 4. Social and Behavioral Sciences*

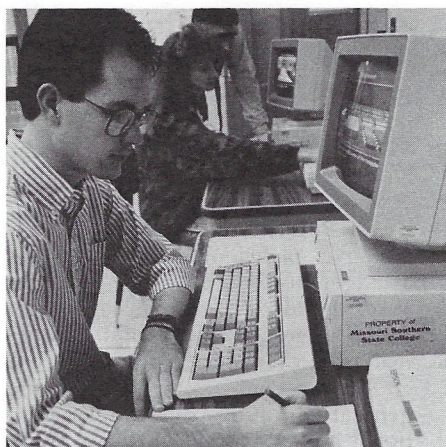
- A. PSc 120 Gov't: U.S., State, & Local 3
- B. Hist 110 U.S. History 1492-1877 3
or
Hist 120 U.S. History 1877-Present 3
- C. Select One: 3
- Hist 130 or 140 Western Civ (3)
 - Geog 221 Regions and Nations (3)
 - Soc 155 Intro to Anthropology (3)
 - Soc 110 Sociology (3)
 - Psy 100 General Psychology (3)
 - **Econ 180 AM Economic System (3)

Total for Area 4 9 Hours

TOTAL CORE CURRICULUM HOURS 42 HOURS

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.



D. Major Field—The student must meet the course requirements in the particular program of study as approved by an advisor.

E. Core Curriculum Requirements—The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

ASSOCIATE OF SCIENCE*

- | | Credit Hours |
|------------------------------------|-----------------|
| Area 1. Basic Requirements* | Required |
| A. Eng 101 English Composition | 3 |
| B. **Comm 100 Oral Communication | 3 |
| C. **Math 30 (or above) | 3 |
| D. Physical Education | 3 |
| **HPER 103 Lifetime Wellness | (2) |
| **HPER 101 Activities | (1) |

Total for Area 1 12 Hours

Area 2. Humanities and Fine Arts*

- A. Select One. 3
- Art 110 Art Appreciation (3)
 - Mus 110 Music Appreciation (3)
 - Th 110 Theatre Appreciation (3)
 - Any literature except 325 (3)
 - Phil 201 Introduction to Philosophy (3)

Total for Area 2 3 Hours

Area 3. Natural Sciences*

- A. **Bio 101 General Biology 4

or

- **Bio 110 Man and Environment 4
- B. **Phys 100 Fundamentals of Physical Science 5

Total for Area 3 4-5 Hours

Area 4. Social and Behavioral Sciences*

- A. Select One 3
- PSc 120 Gov't: U.S., State, & Local (3)
 - Hist 110 or Hist 120 United States History (3)
- B. Select One 3
- Psy 110 General Psychology (3)
 - Soc 110 Introduction to Sociology (3)
 - **Econ 180 American Economic System (3)

Total for Area 4 6 Hours

TOTAL CORE CURRICULUM REQUIREMENTS 25-26 HOURS

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.

A Bachelor of General Studies (BGS) Degree

The B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

ACADEMIC MINOR

Selected departments have developed an academic minor that in conjunction with the major, strengthens the student's vocational preparation. See each department for details.



Associate of Science Degree

- A. Credit Hours—A minimum of 64 hours must be completed.
- B. Residence—The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average—The minimum cumulative and major field grade point average must be 2.0.

Special Requirements

Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity, and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) Students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) Students transferring 15 to 60 semester hours will be exempt from one hour of physical education.

B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the state of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the General Education Requirements meet the requirements of Missouri law. Out of state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's office. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

General Regulations

Classification of Students

A. By Class

Freshman: 0-29 Hours

Sophomore: 30-59 Hours

Junior: 60-89 Hours

Senior: 90 and above

Special Admission: See College Catalog

B. Post Graduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation, and additional degree or personal profit.

C. Full-time:

A student enrolled for 12 or more semester hours.

D. Part-time:

A student enrolled in 11 or less semester hours.

Dual Credit

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination, or USAFI examinations must secure ad-

vanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

Late Enrollment

No student will be permitted to enroll in a regular semester after the first week of classes and/or after the third day of classes in a summer session. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearn Hall). A student who withdraws prior to the end of the ninth week of a regular semester and the end of the 25th day of a summer session will receive a "W" on the permanent record. If the student withdraws after these deadlines, courses will be listed on the permanent record with a grade of "F." A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

Adding Courses

A student may add a course in the Registrar's Office, but only upon the approval of an advisor. A fee of \$5.00 will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester and after the third day of classes in the summer session.

Class Attendance

The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his evaluation on how well the student has achieved the course goals.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence. Students who are absent two class meetings more than the credit hours of the course may be dropped from the course. However, if a grade of "C" or better is maintained, students cannot be dropped without their permission.

Because the attendance record is significant to the total record and useful in guidance and counseling, the professor keeps a record of individual class attendance. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies

Grading System

A student's grade is officially recorded by letter. At Missouri Southern the following grades and their numerical equivalents are used:

Grade	Grade Points
A Outstanding	4
B Above Average	3
C Average	2
D Minimum Passing	1
F Failing	0
W Withdrawal	

The current policy for the "W" grade is as follows:

- Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- Course withdrawals are not permitted after the seventh week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be

pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

I Incomplete A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F."

AU Audit A student may audit a class for no grade and no credit. Acceptable performance, attitude, and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.



Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the immediate supervisor, school dean, and Vice President for Academic Affairs.

Independent Study

Independent Study courses are special courses which may be taken by outstanding students at the discretion of the faculty advisor and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed:
Associate Degree—30 hours
Baccalaureate Degree—90 hours
2. have a minimum cumulative 3.00 GPA
3. have permission of the advisor, department head, and the Dean of the School in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

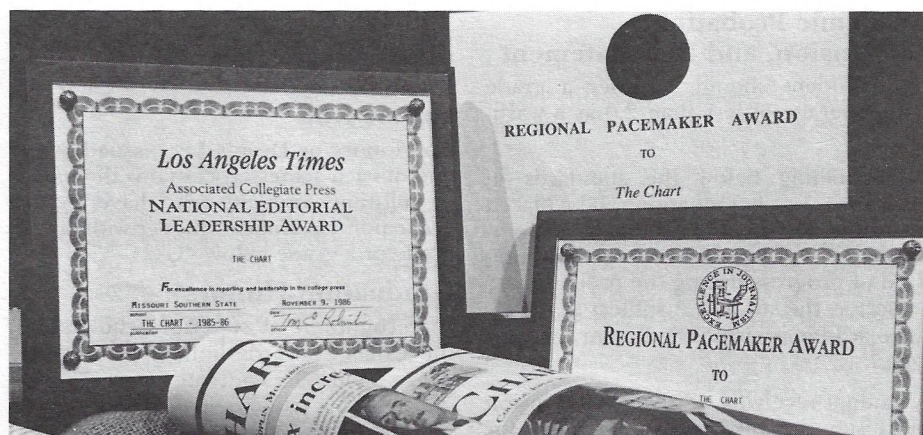
Posting of Grades

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at



Southern are paid or are current according to agreement with the Business Office.

Academic Standards

Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See College Catalog (page 40).

Those students competing in intercollegiate athletics or in organizations representing the College off campus are ineligible to participate in these programs when they fall below the norms set for minimum standards of progress.

Academic Bankruptcy

A student may petition the Registrar to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing, and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Remedial Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take precollege courses in mathematics, language arts, and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree Candidates

Hours Attempted	Grade Point Average
1 - 22 semester hours	1.6
23 - 33 semester hours	1.7
34 - 44 semester hours	1.8
45 - 55 semester hours	1.9
56 & Above	2.0

B. For Baccalaureate Degree Candidates

Hours Attempted	Grade Point Average
1 - 22 semester hours	1.5
23 - 44 semester hours	1.6
45 - 66 semester hours	1.7
67 - 88 semester hours	1.8
89 - 110 semester hours	1.9
111 & Above	2.0

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension, and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension must stay out of Missouri Southern for one semester.

Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

A course in which a student has made a grade of "D" or "F" may be repeated. The grade and grade points in the original class will be cancelled and the second grade will be used in computing grade point averages.



298-498 Classes

Classes numbered 298 or 498 may not be counted toward General Education credit.

Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C".

Graduation Honors*

In recognition of superior scholarships, the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded, and posted on the students' permanent record.

Associate Degree—The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

Baccalaureate Degree—Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3.70-3.79

*This policy becomes effective August 1, 1989.

Course Numbers and Levels

Course Numbers:

- 0 - 99 Applicable toward the associate degree only
- 100 - 199 Primarily for freshmen
- 200 - 299 Primarily for sophomores
- 300 - 399 Primarily for juniors
- 400 - 499 Primarily for seniors

Normally, courses numbered 100-299 are considered junior or lower division level courses, and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course

makes the first semester a prerequisite.

Freshman are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is to be offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment, or other factors dictate.

Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other), and whether they will attend part-time or full-time.

Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veterans' counselor or veterans' representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients

Special policies and regulations governing financial aid recipients are filed in the Financial Aids Office, the Business Office, and the Office of the Vice President for Student Services.

Catalog Time Limit

A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the date of first enrollment in the College, so long as it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence during the year of the catalog selected. The degree requirements in this catalog, 1989-91, became effective June 1, 1989.

The School of Arts & Sciences

School of Arts and Sciences

School Dean

Ray A. Malzahn

Degrees and Majors

Bachelor of Arts

Art
Communications
Chemistry
English
History
Music
Political Science
Sociology
Spanish
Theatre

Bachelor of Science

Biology
Chemistry
Mathematics
Physics
Sociology

Bachelor of Science in Education

Art
Biology
Chemistry
English
Mathematics
Music
Physics
Social Science
Spanish
Speech-Theatre

Options and Emphases

Art (B.A.)
Studio Art
Graphic Communications
Communications (B.A.)
Speech Communications
Mass Communications
Music (B.S.E.)
Instrumental
Vocal
Double Certification
Social Sciences (B.S.E.)
History
Political Science
Sociology

Minors:

See Departments

ROLE

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for

graduate school. The Core Curriculum at Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology, and using the arts.

SCOPE

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities, and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, and musical concerts and recitals.

Art

FACULTY

Christensen - Head, Cole, Fowler, Hess,

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance, and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates

with a bachelor of science in education degree with a major in art are certified through the teacher education program to teach on K-12, 7-9 or the senior high school levels in the State of Missouri.

Degree requirements in the four art programs—B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field)—are such that it is extremely important that students majoring in art meet with their faculty advisors each semester. Students are responsible for contacting their advisor after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress, and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

BACHELOR OF ARTS WITH A MAJOR IN ART

Emphasis I Studio Art

	Semester Hours
Core Curriculum Requirements (page 34)	51
Computer Literacy Requirement—determined by the Art Department	1-3
Foreign Language (two courses in one language)	10
Art Requirements	53
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture	3
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3

Art Art History or Seminar (upper division)	9
Art 312 Beginning Printmaking*	3
Art 490 Senior Exhibit	2
Art Electives (300 - 400 level courses)	18
Electives	11-13
	130**

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF ARTS WITH A MAJOR IN ART

Emphasis II

Graphic Communications

	Semester Hours
Core Curriculum Requirements (page 34)	51
Computer Literacy Requirement— determined by the Art Department	1-3
Foreign Language (two courses in one language)	10
Art Requirements	53
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 300 Advanced Drawing*	3
OR	
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communications I*	3
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*	3
Art 450 Graphic Communications IV*	3
Art 490 Senior Exhibit*	2
Electives**	11-13
	128***

*See Prerequisites

**Suggested Elective Courses:

OA 101	Typewriting	3
CADD 110	Introductory Drafting	3
Comm 120	Mass Communications	3
CJAd 210	Beginning Photography	3
MM 300	Principles of Marketing	3

Bus 320	Business Correspondence	3
MM 401	Promotional Strategy	3
Th 441	Stage Design	3
***Must include at least 40 upper division (300 - 400 level) hours.		
****Cadd 115	Intro to CAD	1
****Comp 105	Intro to Micro Use	3
****Comp 115	Computing I	3
****Satisfies departmental computer literacy requirement (select one).		

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ART

Plan A

One of Two Teaching Fields

	Semester Hours
Core Curriculum Requirements (page 34) 51*	48
Art Requirements	42
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	3
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History (upper division)	9
Art Electives	6
Second Teaching Field (some fields exceed 30 hours)	30
Education Certification Requirements (page 114)	37
	157***

*Psy 110 satisfies certification requirements and 3 hours of the Core Curriculum.

**See Prerequisites included with course descriptions

*** (Varies with 2nd Field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ART

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	48
Art Requirements	50
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3

Art 211 Beginning Sculpture	3
Art 220 Art Education	3
Art 132 Introduction to Design	3
OR	
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History or Seminar (upper division)	9
Art 490 Electives	15
Education Certification Requirements (page 114)	37
	135

*Psy 110 satisfies certification requirements and 3 hours of the Core Curriculum.

**See Prerequisites included with course descriptions

MINOR IN ART

	Semester Hours
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 312 Beginning Printmaking*	3
Art 211 Beginning Sculpture*	3
OR	
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 110 Art Appreciation	3
OR	
Art Art History	3
Art 232 Beginning Painting*	3
OR	
Art 310 Watercolor	3
Total	21

*See Prerequisites included with course descriptions

Suggested Orders of Study

BACHELOR OF ARTS Major Code 1002 Art Major

Emphasis I: Studio Art Freshman Year 1st Semester

Course	Hours
Art 100 Art Composition	3
Art 130 Beginning Drawing	3
CORE [Eng 101 Composition]	3
CORE [Math 110 Intro to College Algebra]	3
CORE [Hist 110 U.S. History]	3
CORE [HPER 103 Lifetime Wellness]	2
	17

School of Arts and Sciences

2nd Semester

Art 132	Intro to Design	3
Art 120	Beginning Ceramics	3
CORE	[Eng 102 Composition]	3
CORE	[Comm 100 Oral Communication]	3
CORE	[Hist 120 U.S. History]	3
CORE	[HPER 101 P.E. Activity]	1

16

*See Prerequisites

**9 hours required—select from Art 301,302,303, or

304

Art History

***Select from 300 or 400 level courses

[Department Recommendation]

BACHELOR OF ARTS

Major Code 1002

Art Major

CORE [Hist 130/140 Western Civilization]

3

17

2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art 350	Graphic Communications II*	3
CORE	[Foreign Language]	5
CORE	[Soc 110 Intro to Sociology]	3

17

Sophomore Year

1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	3
CORE	[Bio 101 General Biology]	
OR		
CORE	[Bio 110 Man and Environment]	4
CORE	[Comp 105 Computer Literacy]	3
Art	Electives approved by the advisor***	3

16

Emphasis II: Graphic Communications

Freshman Year

1st Semester

Course	Hours
Art 100	Art Composition
Art 130	Beginning Drawing*
CORE	[Eng 101 English Composition]
CORE	[Math 110 Intro to College Math]
CORE	[Hist 110 U.S. History]
CORE	[HPER 103 Lifetime Wellness]
CORE	[Psv 120 College Orientation]

19

Senior Year

1st Semester

Art	Art History**	3
Art 490	Senior Exhibit	2
Art 425	Graphic Communications III*	3
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
Elective	[CJAD 210 Beginning Photography]	3
Elective	[MM 300 Principles of Marketing]	3

17

2nd Semester

Art 110	Art Appreciation	3
Art 211	Beginning Sculpture	3
CORE	[Phys 100 Fund of Physical Science]	5
CORE	[Soc 110 Intro to Sociology]	3
Art	Electives***	3

17

2nd Semester

Art 132	Intro to Design	3
Art 120	Beginning Ceramics	3
CORE	[Eng 103 Technical Writing]	3
CORE	[Comm 100 Oral Communication]	3
CORE	[Hist 120 U.S. History]	3
CORE	[HPER 101 P.E. Activity]	1

16

2nd Semester

Art	Art History**	3
Art 450	Graphic Communications IV*	3
CORE	[Econ 180 American Economic System]	3
Elective	[Bus 320 Bus Communications]	3
Elective	[MM 401 Promotional Strategy]	3

15

Junior Year

1st Semester

CORE	[Foreign Language]	5
CORE	[Mus 110 Music Appreciation]	
OR		
CORE	[Th 110 Theatre Appreciation]	3
CORE	[Hist 130/140 Western Civilization]	3
Art	Electives***	6

17

Sophomore Year

1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 320	Basic Form*	3
Art 232	Beginning Painting*	3
Elective	[OA 101 Typewriting]	3
CORE	[Bio 101 General Biology]	
OR		
CORE	[Bio 110 Man and Environment]	4
CORE	[Eng 271/272 English Literature]	3

16

*See Prerequisites

**9 hours required—select from Art 301, 302, 303, 304, or 305

***Satisfies departmental requirement for a computer application course.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0831

Art Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course	
Art 100	Art Composition
Art 110	Art Appreciation
Art 130	Beginning Drawing
CORE	[Eng 101 Freshman Comp I]
CORE	[Math 110 Intro College Math]
CORE	[HPER 103 Lifetime Wellness]
CORE	[Psy 120 College Orientation]

18

2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking	3
CORE	[Foreign Language]	5
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
Art	Elective***	3

17

2nd Semester

Art 211	Beginning Sculpture*	3
Art 310	Watercolor*	3
Elective	[CADD 110 Introductory Drafting]	3
CORE	[Phys 100 Physical Science]	5
CORE	[Eng 281/282 American Literature]	3

17

Senior Year

1st Semester

Art	Art History**	3
Art 490	Senior Exhibit	2
CORE	[Eng 281/282 American Literature]	3
Art	Electives***	6
CORE	[Econ 180 American Economic System]	3

17

Junior Year

1st Semester

Art 110	Art Appreciation	3
Art 300	Advanced Drawing*	
OR		
Art 412	Life Drawing*	3
Art 325	Graphic Communications I*	3
CORE	[Foreign Language]	5

2nd Semester

Art 120	Beginning Ceramics	3
Art 132	Intro to Design	
OR		
Art 230	Basic Form*	3
CORE	[Comm 100 Oral Communications]	3
CORE	[Eng 102 Freshman Comp II]	3
CORE	[Psy 110 Psy of Human Development]	5
CORE	[HPER 101 P.E. Activity]	1

18

2nd Semester

Art	Art History**	3
Art	Electives***	6
Electives	Approved by the advisor***	6

15

Sophomore Year

1st Semester

Art 220	Art Education	3
Art	Elective	3
CORE	[Bio 101 General Biology]	
OR		
CORE	[Bio 110 Man and Environment]	3
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		15

2nd Semester

Art 211	Beginning Sculpture*	3
Art 232	Beginning Painting*	3
CORE	[Eng 281/282 American Literature]	3
CORE	[Hist 120 U.S. History]	3
CORE	[Phys 100 Fund. of Physical Science]	3
		15

Junior Year

1st Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching	2
	Secondary	2
Educ 331	Microteaching	2
Educ 370	Introduction to Instructional Media	2
CORE	[Hist 130/140 Western Civilization]	3
		17

2nd Semester

Art	Art History**	3
Art	Electives	6
Educ 401	Use of Computer Software in Classroom***	2
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	2
CORE	[Econ 180 American Economic System]	3
		18

Senior Year

1st Semester

Art	Art History**	3
Art	Electives	6
Art 490	Senior Exhibit*	2
Educ 422	Reading in Secondary Schools	2
CORE	[Eng 271/272 English Literature]	3
		16

2nd Semester

Professional semester
Consult page 115 for specific course requirements

*See Prerequisites

**9 hrs. required—select from Art 301, 302, 303, or 304 Art History

***Satisfies departmental requirement for a computer application course.

[] Departmental Recommendation

After accumulating 21 hrs. in art, students should make application for their Junior Review via their advisor.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:

Art Department Head
Office: 303 Art Building
Phone: 625-9563

Biology

FACULTY

Prentice - Head, Adams, Bingman, Gibson, Jackson, Messick, Stebbins, Tillman

For the biology, biology education, or environmental health technology major, a required core of courses is offered that has been proven appropriate by student input, postgraduate survey, professional and graduate school acceptances, job placements and performance, and accrediting agencies. The remaining requirements to complete these majors are designed to allow the students to orient themselves toward their specific career goals. Additional requirements of appropriate mathematics and physical science courses are specified to augment the courses taken in the major.

The biology department offers two courses that satisfy the Core Curriculum requirement of a biological science course with laboratory, Bio 101 General Biology and Bio 110 Man and Environment. Bio 101 is the recommended course for all majors except those which have specific requirements stated for Bio 110.

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

Semester Hours

Core Curriculum Requirements (page 34) 51* 39
Computer Literacy Requirement determined by the Biology Department 2-3

Biology Requirements 38-42

Bio 101 General Biology	4
Bio 112 Botanical Survey**	3
Bio 122 Zoological Survey**	3
Bio 210 General Physiology**	4
Bio 211 Microbiology**	
OR	
Bio 231 Medical Microbiology**	5

Bio 305 Genetics**	4
Bio 490 Seminar**	1
Bio Upper Division Botany Elective**	3-4

Bio Upper Division Zoology Elective**	4-5
Bio Upper Division Environmental Elective**	4
Bio Electives	3-5

Supporting Requirements 25

Math 140 Algebra and Trigonometry**

OR

Math 150 Calculus with Analytic Geometry I**	5
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 300 Introduction to Modern Organic Chemistry**	

OR

Chem 301 Organic Chemistry I**	5
Phys 151 Elementary College Physics I**	5

Electives 22-24
128-131***

*Required courses in biology, chemistry, mathematics, and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

It is strongly recommended that pre-professional students take Chem 302 and Phys 152. Pre-veterinary medicine majors must complete Bio 131 Animal Science and Bio 261 Animal Nutrition before the second semester of the senior year.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY

Plan A

One of Two Teaching Fields

See: Minors-Biology Education

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY

Plan B

Single Teaching Field

Semester Hours

Core Curriculum Requirements (page 34) 51* 36

Computer Literacy Requirement— determined by the Biology Department

Biology Requirements 35

Bio 101 General Biology 4

Bio 112 Botanical Survey** 3

Bio 122 Zoological Survey** 3

Bio 211 Microbiology** 3

OR

Bio 231 Medical Microbiology** 5

Bio 305 Genetics** 4

Bio 306 Human Physiology and Anatomy** 5

Bio Upper Division Biology Electives (Bio 499 problems in Biology 2-4 hrs. and Bio 312 Environmental Biology or Bio 402 Ecology 4 hrs. are required for certification.) 11

Supporting Requirements 25

Math 140 Algebra and Trigonometry** 5

Chem 101 General Chemistry I** 5

Chem 102 General Chemistry II** 5

Chem 300 Introduction to Modern Organic Chemistry** 5

OR

Chem 301 Organic Chemistry I** 5

Phys 151 Elementary College Physics I 5

Education Certification Requirements (page 114) 35

133-134

*Required courses in biology, chemistry, mathematics, physics, and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.

**See Prerequisites

ENVIRONMENTAL HEALTH TECHNOLOGY

See: Environmental Health Technology

MINORS IN BIOLOGY

Minor in biology (botany-horticulture emphasis)

Semester Hours

Chem 100 Introductory Chemistry** 5

Bio 101 General Biology 4

Bio 112 Botanical Survey 3

Bio 316 Economic Botany 3

Bio 271 Principles of Plant Propagation 3

Bio 440 Plant Pathology 4

Bio 322 Taxonomy of Flowering Plants 4

Bio 332 Introduction to Entomology 3

Bio 499 Problems in Biology (1-3 hrs.)

OR

Bio 450 Internship in Biology (1-8 hrs.) 1-8

Total 30-37

Minor in biology (zoology-health science emphasis)

Semester Hours

Bio 101 General Biology 4

Bio 121 Zoological Survey 3

Bio 331 Comparative Anatomy 5

Bio 431 Animal Physiology 5

Bio 433 Histology (4 hrs.)

OR

Bio 462 Embryology (5 hrs.) 4-5

Bio 422 Invertebrate Zoology (5 hrs.)

OR

Bio 361 Parasitology (4 hrs.) 4-5

Bio 499 Problems in Biology 1-3

Total 26-30

Minor in biology (environmental health emphasis)

Semester Hours

Bio 110 Man and Environment 4

Bio 231 Medical Microbiology 5

Bio 312 Environmental Biology

OR

Bio 370 Environmental Health 4

Bio 499 Problems in Biology (1-3 hrs.)

AND/OR

Bio 450 Internship in Biology (1-8 hrs.) 1-8

Upper Division Biology Electives 7-9

21-30

Minor in biology (biology education)

Semester Hours

Bio 101 General Biology 4

Bio 112 Botanical Survey 3

Bio 122 Zoological Survey 3

Bio 211 Microbiology

OR

Bio 231 Medical Microbiology 5

Bio 305 Genetics 4

Bio 306 Human Physiology and Anatomy 5

Bio 499 Problems in Biology 2

26

Completion of the *biology education minor* plus the following courses will qualify the student for certification in biology for grades 7-12 and is Plan A for the bachelor of science in education:

Math 140 Algebra and Trigonometry 5

Chem 101 General Chemistry I 5

Phys 151 Elementary College Physics I 5

Bio 312 Environmental Biology

OR

Bio 402 General Ecology 4

Total 19

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 0401

Biology Major

Freshman Year

1st Semester

Course	Hours
Bio 101 General Biology	4
CORE [Eng 101 Composition I]	3
CORE [HPER 101 Activities]	1
CORE [Hist 110 U.S. History]	3
CORE [Humanities and Fine Arts]	3
Psy 120 College Orientation	1
	15

2nd Semester

Bio 122 Zoological Survey (Bio 101)	3
Math 140 Algebra and Trigonometry	5
CORE [Eng 102 Composition II]	3
CORE [Comm 100 Oral Communication]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
	17

Sophomore Year

1st Semester

Bio 112 Botanical Survey (Bio 101)	3
Bio 211 Microbiology (Bio 101)	
OR	
Bio 231 Medical Microbiology (Bio 101)	5
Chem 101 General Chemistry I (Math 140)	5
Comp 115 Computing I or approved computer course	3
	16

2nd Semester

Bio 305 Genetics (Bio 101, 211 or 231)	4
Bio 210 General Physiology (Bio 122, Chem 102)	4
Chem 102 General Chemistry II (Chem 101)	5
CORE [Econ 180 American Economic System]	3
	16

Summer Semester

Bio 306 Human Physiology and Anatomy	5
CORE [Hist 320 U.S. History 1877-Present]	3
	8

Junior Year

1st Semester

Bio 331	Comparative Vertebrate Anatomy	5
Chem 301	Organic Chemistry I (Chem 102)	5
Phys 151	Elementary College Physics I (Math 140)	5
CORE	[International Cultural Studies]	3
		18

2nd Semester

Bio 433	Histology (4 hrs)	
OR		
Bio 462	Embryology (5 hrs)	4-5
Bio 322	Plant Taxonomy	4
CORE	[Humanities and Fine Arts]	6
		14-15

Senior Year

1st Semester

Bio 362	Virology	3
Bio 371	Plant Physiology	4
Bio 490	Seminar	1
Bio	Electives	2
CORE	[Behavioral Science]	3
CORE	[HPER 103 Lifetime Wellness]	2
		15

2nd Semester

Bio 402	Ecology	4
Bio 456	Immunology	3
Bio 381	Ornithology	3
Bio	Electives	6
		16

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. Vonnie R. Prentice
Office: 215 Reynolds Hall
Phone: (417) 625-9539

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0840

Biology Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Composition I]	3
Psy 110	Psychology of Human Development	5
Psy 120	College Orientation	1
CORE	[Hist 110 U. S. History]	3
		16

2nd Semester

Bio 122	Zoology Survey (Bio 101)	3
CORE	[Eng 102 Composition II]	3
Math 140	Algebra & Trigonometry	5
CORE	[Comm 100 Oral Communication]	3
Comp 115	or approved computer course	2-3
		16-17

Sophomore Year

1st Semester

Bio 112	Botanical Survey (Bio 101)	3
Chem 101	General Chemistry I (Math 130 or Math 140)	5
Phys 151	Elementary College Physics I	5
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
CORE	[HPER 101 Activities]	1
		17

2nd Semester

Bio 211	Microbiology (Bio 101)	5
Bio 305	Genetics (Bio 101, 211 or 231)	5
Chem 102	General Chemistry II (Chem 101)	5
CORE	[Humanities and Fine Arts]	3
		17

Junior Year

1st Semester

Chem 300	Introduction to Modern Organic Chemistry	
OR		
Chem 301	Organic Chemistry I (Chem 102)	5
Educ 300	Clinical Experience	2
Educ 330	Structures of Teaching/Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
CORE	[Humanities and Fine Arts]	3
CORE	[HPER 103 Lifetime Wellness]	2
		18

2nd Semester

Bio 402	General Ecology (Biol 101, 112, 322 or consent)*	4
Psy 302	Exceptional Child (Psy 110)	2
Psy 310	Educational Psychology	2
Bio	Electives	5
CORE	[Humanities and Fine Arts]	3
CORE	[History 320 American History]	3
		19

Senior Year

1st Semester

Bio 306	Human Physiology & Anatomy (Bio 121)	5
CORE	[Econ 180 American Economic System]	3
Bio	Electives	5
CORE	[International Cultural Studies]	3
Bio 499	Problems in Biology	2
		18

2nd Semester

Professional Semester to include Educ 422	18
	18

*Offered spring semester only

() Prerequisite

[] Department Recommendation-not necessarily in this order

For additional information contact:
Dr. Vonnie R. Prentice
Office: 215 Reynolds Hall
Phone: 625-9539

Major Code 7005

Premedicine

Major Code 7002

Pre dentistry

Major Code 7005

Pre veterinary

(This program will also qualify the student for the bachelor of science in biology)

Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
Chem 101	General Chemistry I	5
Math 140	Algebra & Trigonometry	
OR		
Math 150	Calculus w/Analytic Geometry	5
CORE	[HPER 101 P. E. Activity]	1
Psy 120	College Orientation	1
		16

2nd Semester

Course		Hours
Bio 122	Zoological Survey (Bio 101)	3
Chem 102	General Chemistry II (Chem 101)	5
Comp 115	Computing I	3
CORE	[Eng 101 Composition]	3
CORE	[Comm 100 Oral Communication]	3
		17

Sophomore Year

1st Semester

Course		Hours
Bio 112	Botanical Survey (Bio 101)	3
Bio 211	Microbiology (Bio 101)	5
Phys 151	Elementary College Physics I (Math 140)	5
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Eng 102 Composition II]	3
		18

Summer Semester

Course		Hours
Bio 306	Human Physiology and Anatomy	5
CORE	[Hist 110 American History]	3
		8

2nd Semester

Course		Hours
Bio 305	Genetics (Bio 211 or 231)	4
Phys 152	Elementary Physics II (Phys 151)	3
CORE	[Psy 110 Psychology of Human Development]	5
Bio 210	General Physiology (Bio 122 & Chem 102)	4
		16

Junior Year

1st Semester

Course		Hours
Bio 331	Comparative Anatomy	5
Chem 301	Organic Chemistry I (Chem 102)	5
CORE	[Econ 180 American Economic System]	3
CORE	[Humanities and Fine Arts]	3
		16

School of Arts and Sciences

2nd Semester Course	Hours
Bio 318 Cell Biology	4
OR	
Bio 456 Immunology	3
Chem 302 Organic Chemistry II (Chem 301)	5
Bio 462 Embryology	5
CORE [Humanities and Fine Arts]	3
	20

Senior Year 1st Semester Course	Hours
Bio 316 Economic Botany	3
Bio 431 Animal Physiology	5
OR	
Bio 433 Histology	4
Bio 490 Seminar	1
CORE [Humanities and Fine Arts]	3
Chem 201 Analytic Chemistry I	5
	21

2nd Semester Course	Hours
Bio 402 General Ecology	4
CORE International Cultural Studies	3
CORE [Hist 320 U.S. History]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Math 310 Elementary Statistics (Math 130)	3
	16

*Prevet students also must enroll in Animal Science and Animal Nutrition prior to acceptance at the University of Missouri Veterinary School.

Students also should check with the premed advisor about any specific professional school. The individual school may have some other specific requirement.

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. Vonnie R. Prentice (Premed)
Office: 215 Reynolds Hall
Phone: 625-9539

Major Code 7006

Pre-optometry

(This program also will qualify the student for the bachelor of science in biology.)

Freshman Year

1st Semester Course	Hours
Bio 101 General Biology*	4
Chem 101 General Chemistry I (Math 140)*	5
Math 140 Algebra & Trigonometry	5
Psy 120 College Orientation	1
CORE [HPER 101 Activities]	1
	16

2nd Semester Course	Hours
Bio 122 Zoological Survey	3
Chem 102 General Chemistry II (Chem 101)*	5
CORE [Eng 101 Composition I]*	3
Comp 115 Computing I	3
CORE [Comm 100 Oral Communication]*	3
	17

Sophomore Year

1st Semester Course	Hours
Bio 112 Botanical Survey (Bio 101)*	3
Bio 305 Genetics (Bio 101, 211, or 231)	4
CORE [Eng 102 Composition II]*	3
Math 150 Calculus with Analytic Geometry (Math 140)*	5
CORE [HPER 103 Lifetime Wellness]	2
	17

2nd Semester Course	Hours
Bio 211 Microbiology (Bio 101)	5
Bio 210 General Physiology (Bio 122 and Chem 102)*	4
CORE [Psy 100 General Psychology]*	3
CORE [Econ 180 American Economic System]	3
CORE [Hist 110 History]*	3
	18

Junior Year

1st Semester Course	Hours
Phys 151 Elementary College Physics I*	5
Chem 301 Organic Chemistry I (Chem 102)*	5
Bio 433 Histology	4
Psy 300 Child Development	4
OR	
Psy 301 Adolescent Psychology	3
	17

2nd Semester Course	Hours
Phys 152 Elementary College Physics II (Phys 151)*	3
Chem 302 Organic Chemistry II (Chem 301)	5
Bio 318 Cell Biology (4 hrs)	3-4
OR	
Bio 456 Immunology (3 hrs)	3
Math 310 Elementary Statistics*	3
CORE [Humanities and Fine Arts]	3
	17-18

Senior Year

1st Semester Course	Hours
Bio 316 Economic Botany	3
Bio 431 Animal Physiology	5
Bio 490 Seminar	1
CORE [International Cultural Studies]	3
CORE [Hist 320 American History]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
	18

2nd Semester Course	Hours
Bio 402 General Ecology (spring only)	3
OR	
Bio 312 Environmental Biology (fall only)	4
Bio 306 Human Physiology and Anatomy	5
Electives	3
CORE [Humanities and Fine Arts]	6
	18

*Indicates courses which satisfy minimum requirements for admission into Optometry School. Application may be made with 90 semester hours. Strong preference is given to applicants who hold the bachelor's degree.

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. E. Sam Gibson (Preoptometry)
Office: 319D Reynolds Hall
Phone: 625-9699

Mr. David Tillman (Pre dental)
Office: 303 Reynolds Hall
Phone: 625-9698

Dr. John Messick (Prevet)
Office: 320 Reynolds Hall
Phone: 625-9617

Major Code 7003

Prephysical Therapy

FOR TRANSFER TO UNIVERSITY OF MISSOURI-COLUMBIA

Freshman Year

1st Semester Course	Hours
CORE [Eng 101 Composition]	3
Math 140 Algebra & Trigonometry	5
Bio 121 General Zoology	4
CORE [Psy 100 General Psychology]	3
Psy 120 College Orientation	1
	16

2nd Semester Course	Hours
CORE [Eng 102 Composition]	3
Psy 311 Applied Statistics-Behavioral & Natural Science	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Bio 306 Human Physiology and Anatomy (Bio 121)	5
CORE [Comm 100 Oral Communication]	3
	17

Sophomore Year

1st Semester Course	Hours
Phys 151 Elementary College Physics	5
Psy 221 Psychology of Personal Adjustment	3
CORE [Hist 110 American History]	3
CORE [Humanities and Fine Arts]	6
Psy 310 Educational Psychology	2
	19

2nd Semester Course	Hours
Chem 101 General Chemistry I (Math 140)	5
Bio 210 General Physiology (Bio 121)	4
CORE [Humanities and Fine Arts]	3
CORE [HPER 101 Activities]	1
CORE [HPER 103 Lifetime Wellness]	2
	15

Apply for admission to Physical Therapy School, University of Missouri-Columbia residence. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

() Prerequisites

[] Department Recommendations

An associate of arts degree may be awarded if one of the humanities electives is a literature course.

For additional information contact:
Mr. David Tillman
Office: 303 Reynolds Hall
Phone: 625-9698

Chemistry

FACULTY

Baiamonte - Head, Albright, Kash,
Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels, and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry, and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

BACHELOR OF ARTS WITH A MAJOR IN CHEMISTRY

	Semester Hours
Core Curriculum Requirements (page 34) 51*	43
Foreign Language (two courses in one language)	10
Chemistry Requirements	28
Chem 101 General Chemistry I**	5

Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper Division Chemistry Electives (8 hrs.) excluding Chem. 301 and Chem 302.**	

OR

Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry. II (5 hrs.), Upper Division Chem. Electives (3 hrs.) excluding Chem 300**	13
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Supporting Requirements

Phys 151 Elementary College Physics I**	5
Phys 152 Elementary College Physics II**	3
Math 140 Algebra and Trigonometry**	5
Comp 115 Computing I	
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Electives 31
128***

*Required chemistry, physics, and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY

	Semester Hours
Core Curriculum Requirements (page 34) 51*	43
Chemistry Requirements	33
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 402 Physical Chemistry II**	4
Supporting Requirements	23
Phys 250 General Physics I**	5

Phys 260 General Physics II**	5
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Comp 115 Computing I	
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Electives*** 29
128***

*Required chemistry, physics, and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

****Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY

Plan A

One of Two Teaching Fields

	Semester Hours
Core Curriculum Requirements (page 34) 51*	36
Chemistry Requirements	27
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 499 Problems Laboratory	2
Supporting Requirements	17
Phys 151 Elementary College Physics I**	5
Math 140 Algebra and Trigonometry**	5
Bio 110 Man and Environment	4
Comp 115 Computing I (in place of Educ 401)	

OR

Comp 200 Advanced Personal Computing with Graphics	3
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Education Certification Requirements
(page 114) 35

Second Teaching Field (some fields exceed 30 hours) 30
145***

*Required chemistry, physics, mathematics, psychology, and biology courses satisfy

School of Arts and Sciences

fy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

*** (Varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY

Plan B

Single Teaching Field

Semester Hours

Core Curriculum Requirements

(page 34) 51* 36

Chemistry Requirements

Chem 101 General Chemistry I** 5 31

Chem 102 General Chemistry II** 5

Chem 201 Analytical Chemistry I** 5

Chem 301 Organic Chemistry I** 5

Chem 302 Organic Chemistry II** 5

Chem 401 Physical Chemistry I** 4

Chem 499 Problems Laboratory 2

Supporting Requirements

Phys 250 General Physics I** 5 27

Phys 260 General Physics II** 5

Math 150 Calculus with Analytical

Geometry I** 5

Math 250 Calculus with Analytical

Geometry II** 5

Bio 110 Man and Environment 4

Comp 115 Computing I (in place of

Educ 401)

OR

Comp 200 Advanced Personal

Computing with Graphics 3

Education Certification Requirements

(page 114) 35

129

*Required chemistry, physics, mathematics, psychology, and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

MINOR IN CHEMISTRY

Semester Hours

Chem 101 General Chemistry I* 5

Chem 102 General Chemistry II* 5

Chem Electives** (Excluding Chem

100, Chem 298, Chem 498 and Chem

499) 8

18

*See Prerequisites

**Chem 300 and Chem 301 cannot be used together to satisfy the 8 hour requirement.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1905

Chemistry Major

Freshman Year

1st Semester

Course Hours

Chem 101 General Chemistry I (Algebra & Trigonometry) 5

Math 140 Algebra & Trigonometry OR (Math 150 Calculus I) 5

CORE [Eng 101 Composition] 3

CORE [HPER 103 Lifetime Wellness] 2

Psy 120 College Orientation 1

16

2nd Semester

Chem 102 General Chemistry II (Chem 101) 5

CORE [Eng 102 Composition] 3

CORE [Hist 110 U.S. History] 3

Electives (Second area of concentration) 3

Comp 115 Computing I 3

17

Sophomore Year

1st Semester

Chem 301 Organic Chemistry I* (Chem 102) 5

OR

Chem 201 Analytical Chem I (Chem 102) 5

Phys 151 Elementary College Physics I (Math 140) 1

CORE [HPER 101 Physical Activities] 5

Electives (Second area of concentration) 16

2nd Semester

Chem 302 Organic Chemistry II* (Chem 301) 5

OR

Chem 300 Intro to Modern Organic Chemistry (Chem 102) 5

Phys 152 Elementary College Physics II (Phys 151) 5

CORE [PSc 120 Gov't: U.S., State, & Local] 3

Electives (Second area of concentration) 5

18

Junior Year

1st Semester

Chem 201 Analytical Chemistry I (Chem 102) 4-5

OR

Chem [Upper Division Elective] 5

Foreign Language 3

CORE [Comm 100] 3

CORE [Humanities & Fine Arts] 3

15-16

2nd Semester

Chem Elective Upper Division 4

Foreign Language 5

CORE [Psy 100 or Soc 110] 3

CORE [Bio 101 General Biology] 4

16

Senior Year

1st Semester

CORE [Humanities & Fine Arts] 3

CORE [Econ 180 American Economic System] 3

CORE [International Cultural Studies] 3

Electives 6

15

2nd Semester

CORE [Humanities & Fine Arts] 3

CORE [Hist 120 or Hist 320 U.S. History] 3

Electives 9

15

Student may elect either Chem 300 plus 8 hours of upper division chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division Chemistry electives (excluding Chem 300).

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Vernon Baiaomonte

Office: 213 Reynolds Hall

Phone: 625-9541

BACHELOR OF SCIENCE

Major Code 1905

Chemistry Major

Freshman Year

1st Semester

Course Hours

Chem 101 General Chemistry I (Algebra & Trigonometry) 5

Math 150 Calculus I 5

CORE [Eng 101 Composition] 3

Comp 115 Computing I 3

Psy 120 College Orientation 1

17

2nd Semester

Chem 102 General Chemistry II (Chem 101) 5

Math 250 Calculus II (Math 150) 5

CORE [Eng 102 Composition] 3

CORE [HPER 101 Physical Activities] 1

CORE [Psy 101 or Soc 110] 3

17

Sophomore Year

1st Semester

Chem 301 Organic Chemistry I (Chem 102) 5

Phys 250 General Physics (Math 150) 5

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School of Arts and Sciences

munication-oriented careers may wish to follow. Speech communication is an especially valuable major for many preprofessional schools, such as law. Option two, mass communications, allows students to attain a high level of proficiency in the skills required for media in modern society. Print journalism, the electronic media, and public relations are three specific areas of preparation. Laboratories in both the print and electronic media, outfitted with state-of-the-art equipment, permit students hands-on experience from the beginning of their college careers. The department publishes a weekly college newspaper and the college yearbook, and through Missouri Southern Television operates MSTV, a cable television service, and K57DR, a low-power television station serving the city of Joplin. Through KOZJ, a PBS-affiliated television station serving the tri-state area of Missouri, Kansas, and Oklahoma, students receive additional opportunities for media training. The department also operates KXMS, a stereo-FM radio station providing classical music programming 24 hours a day. Complementing both the speech communication and the mass communications major is a strong debate program which has achieved national recognition. A bachelor of science in education degree is offered with the department of theatre for students who wish to obtain certification to teach speech and theatre 7-12.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS

Option I: Speech Communication

	Semester Hours
Core Curriculum Requirements (page 34)	51
Computer Literacy Requirement: Comp 105 Introduction to Microcomputer Use	3
Foreign Language (two courses in one language)	10
Communications Requirements	50
Comm 101 Introduction to Human Communication	3
Comm 131 Voice and Diction	3

Comm 215 Interpersonal Communication*	3
Comm 300 Organizational Communication*	3
Comm 411 Political and Social Communication*	3
Comm 420 Mass Communications Theory*	3
Communication Electives (at least 3 upper division hours)	29
French, Spanish, or German—One course beyond B.A. requirement	3
Electives	14
	128**

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS

Option II: Mass Communications

	Semester Hours
Core Curriculum Requirements (page 34)	51
Computer Literacy Requirement: Comp 105 Introduction to Microcomputer Use	3
Foreign Language (two courses in one language)	10
Communications Requirements	50
Comm 101 Introduction to Human Communication	3
Comm 111 Newswriting	3
Comm 215 Interpersonal Communication	3
Comm 220 Practicum in Communications*	1
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting*	3
Comm 330 Advanced Communications Practicum**	2
Comm 420 Mass Communications Theory*	3
Communication electives (at least 4 upper division hours)	26
French, Spanish, or German—One course beyond B.A. requirement	3
Electives	14
	128**

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political

science, sociology, business, and psychology are recommended.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH COMMUNICATION AND THEATRE

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	48
Computer Literacy Requirement: Educ 401 Use of Computer Software in the Classroom	2
Communications Requirements	12
Comm 101 Introduction to Human Communication	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication**	3
Comm 315 Argumentation and Debate**	3
Theatre Requirements	17
Th 121, 122, 221, or 222—Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (W.C.) OR	
Th 332 History of Theatre	3
Th 351 Directing**	3
Electives in Communications and/or Theatre	11**
Electives	3
Education Certification Requirements (page 114)37****	35
	128

*Required course in psychology counts 3 hours toward Core Curriculum requirements.

**See Prerequisites

***Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre.

****Two credit hours are satisfied by Educ 401.

MINOR IN COMMUNICATIONS

	Semester Hours
Comm Electives (lower or upper division)	15
Comm Electives (upper division)	6
21*	

*Must be selected in close advisement with a faculty member in the department of communications.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 0600
Communications Major

Mass Communications Option Broadcast Emphasis Freshman Year

Course	Hours
CORE [Eng 101 Composition]	3
CORE [Comm 100 Oral Communication]	3
CORE [Math 110 Intro to College Math]	3
Comm 101 Intro to Human Communication	3
Comm 111 Newswriting	3
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Composition]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Econ 180 Am Economic System]	3
Comm 130 Intro to Broadcasting	3
Comm 131 Voice and Diction	3
Comp 105 Intro to Microcomputer Use	3
	17

Sophomore Year

1st Semester	Hours
Foreign Language	5
CORE [HPER 101 Activities]	1
CORE [Humanities and Fine Arts]	3
Comm 215 Interpersonal Communication	3
Comm 200 Radio Production	3
OR	
Comm 201 TV Production	3
Electives	2-3
	17-18

2nd Semester

Foreign Language	5
CORE [Humanities and Fine Arts]	3
Comm 200 Radio Production	3
OR	
Comm 201 TV Production	3
Comm 220 Practicum in Communications	1
Electives	3-5
	15-17

Junior Year

1st Semester	Hours
Foreign Language	3
CORE [Humanities/Fine Arts]	3
CORE [Biology]	4
Comm 320 Advanced TV Production	3
Comm 325 Broadcast News Reporting	3
	16

2nd Semester

CORE [Phys 100 Fund of Physical Science]	5
CORE [Psy 100 or Soc 110]	3
Comm 310 Communication Law	3
Comm 402 Broadcast Programming	3
Comm 301 Broadcast and Cable Management	3

Senior Year

1st Semester	Hours
CORE [Hist 110 U.S. History]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Comm 330 Adv Communications Practicum	2
CORE [Comm 305 Intercultural Communication]	3
Comm Elective (upper-division)	3
Elective (upper-division)	3
	17

2nd Semester

CORE [Hist 320 U.S. History]	3
Comm 420 Mass Communications Theory	3
Electives (upper-division)	8
	14

Electives should be chosen in consultation with the advisor to meet desired career goals. Courses in history, business, political science, sociology, psychology, art, and theatre all may be appropriate.

[] Department Recommendation

For additional information contact:

Mr. Richard W. Massa

Office: MSTV

Phone: 625-9372

BACHELOR OF ARTS

Major Code 0600

Communications Major

Mass Communications Option Newspaper Emphasis Freshman Year

1st Semester	Hours
Course	
CORE [Eng 101 Composition]	3
CORE [Comm 100 Oral Communication]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Comm 101 Intro to Human Communication	3
Comm 111 Newswriting	3
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Composition]	3
CORE [Math 110 Intro to College Math]	3
CORE [HPER 101 Activities]	1
Comp 105 Introduction to Microcomputer Use	3
Comm 220 Practicum in Communication	3
Elective	3
	16

Sophomore Year

1st Semester	Hours
CORE [HPER 103 Lifetime Wellness]	2
CORE [Econ 180 Am Economic System]	3
Foreign Language	5
Comm 215 Interpersonal Communication	3
Comm Electives [Comm 231 Feature Writing]	3-4
	16-17

2nd Semester

Foreign Language	5
CORE [Humanities and Fine Arts]	3
CORE [Psy 100 or Soc 110]	3
Comm Elective	3
Elective	3
	17

Junior Year

1st Semester	Hours
Foreign Language	3
CORE [Humanities and Fine Arts]	3
CORE [Biology]	4
Comm 325 Broadcast News Reporting	3
Comm 330 Adv Communications Practicum	2
Elective [upper-division]	2
	17

2nd Semester

CORE [Humanities and Fine Arts]	3
CORE [Phys 100 Fund of Physical Science]	5
CORE [Hist 110 U.S. History]	3
Comm 310 Communication Law	3
Comm Elective (upper division)	3
	17

Senior Year

1st Semester	Hours
CORE [Hist 320 U.S. History]	3
Comm Electives [upper-division]	8
Electives [upper division]	4
	15

2nd Semester

Comm 420 Mass Communications Theory	3
CORE [Comm 305 Intercultural Communication]	3
Comm Elective (upper division)	3
Electives (upper division)	4
	13

School of Arts and Sciences

Electives in communications should be chosen in consultation with the advisor to meet desired career goals. Other electives should be chosen in an area of minor concentration or in a supportive role to career goals. Courses in history, business, political science, sociology, and psychology are strongly recommended.
[] Department Recommendation

For additional information contact:
Mr. Richard W. Massa
Office: MSTV
Phone: 625-9372

BACHELOR OF ARTS

Major Code 0600
Communication Major

Speech Communication Option

Freshman Year

1st Semester

Course	Hours
CORE [Eng 101 Composition]	3
CORE [Comm 100 Oral Communication]	3
CORE [Math 110 Intro to College Math]	3
Psy 120 College Orientation	1
Comm 101 Intro to Human Communication	3
Elective	3
	16

2nd Semester

CORE [Eng 102 Composition]	3
CORE [HPER 103 Lifetime Wellness]	2
Comp 105 Intro to Microcomputer Use	3
CORE [Econ 180 Am Economic System]	3
Comm 131 Voice and Diction	3
Elective	3
	17

Sophomore Year

1st Semester

Foreign Language	5
CORE [HPER 101 Activities]	1
CORE [Humanities and Fine Arts]	3
Comm 215 Interpersonal Communication	3
Comm Elective	3
	15

2nd Semester

Foreign Language	5
CORE [Humanities and Fine Arts]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Comm Elective	3
Elective (upper-division)	3
	17

Junior Year

1st Semester

Foreign Language	3
CORE [Humanities and Fine Arts]	3
CORE [Biology]	4
Comm 300 Organizational Communication	3
Comm Elective (upper-division)	3
	16

2nd Semester

CORE [Phys 100 Fund of Physical Science]	5
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CORE [Psy 100 or Soc 110]	3
CORE [Hist 110 U.S. History]	3
Comm 411 Political and Social Communication	3
Comm Elective (upper-division)	3
	17

Senior Year

1st Semester

CORE [Hist 320 U.S. History]	3
Comm Electives (upper-division)	9
Elective (upper-division)	3
	15

2nd Semester

Comm 420 Mass Communications Theory	3
CORE [Comm 305 Intercultural Communication]	3
Comm Electives (upper-division)	6
Elective (upper-division)	3
	15

Electives should be selected in consultation with the advisor to meet desired career goals.
[] Department Recommendation

For additional information contact:
Mr. Richard W. Massa
Office: MSTV
Phone: 625-9372

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844

Speech-Theatre Major (Plan B) Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Comm 101 Intro to Human Communication	3
CORE [Comm 100 Oral Communication]	3
CORE [Eng 101 Composition]	3
CORE [Math 110 Intro to College Math]	3
CORE [Biology]	4
Psy 120 College Orientation	1
	17

2nd Semester

Psy 110 Psychology of Human Development	5
Comm Elective	3
Th 142 Theatre Technology	3
CORE [Eng 102 Composition]	3
CORE [Humanities and Fine Arts]	3
	17

Sophomore Year

1st Semester

Educ 302 The Exceptional Child	2
Comm 215 Interpersonal Comm	3
Comm Elective	3
Th 241 Acting I	3
CORE [Humanities and Fine Arts]	3
CORE [HPER 103 Lifetime Wellness]	2
	16

2nd Semester	
Educ 422 Reading in Secondary Schools	2
Psy 310 Educational Psychology	2
Comm Elective	3
Th 212 Oral Interpretation	3
CORE [Humanities and Fine Arts]	3
CORE [Hist 110 U.S. History]	3
CORE [HPER 101 Activities]	1
	17

Junior Year

1st Semester

Educ 300 Clinical Experience	2
Educ 330 Structure of Teaching Secondary	2
Educ 331 Microteaching Secondary	2
Educ 390 Intro to Instructional Media	2
Comm 304 Small Group Communication	3
Comm 315 Argumentation and Debate	3
Th 331 History of the Theatre	3
	17

2nd Semester

CORE [Comm 305 Intercultural Communication]	3
Comm Elective	3
CORE [Phys 100 Fund of Physical Science]	5
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Econ 180 Am Economic System]	3
	17

Senior Year

1st Semester

Th 351 Directing I	3
CORE [Hist 320 U.S. History]	3
Electives	9
	15

2nd Semester

Educ 402 Foundations of Education	2
Educ 432 Critical Issues in Education	2
Educ 344 Teaching Speech & Theatre in Sec. Schools	2
Educ 401 Use of Computer Software in Classroom	2
Educ 462 Student Teaching	8
Educ 412 or Educ 420 or Educ 423 or Psy 412	2
	18

[] Department Recommendation

For additional information contact:
Mr. Richard W. Massa
Office: MSTV
Phone: 625-9372

English

FACULTY

Lambert - Head, Ackiss, Brattin, Brown, Couch, DeArmond, Denniston, Greenlee, Harder, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills, and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent major for students who plan to enter business and industry, for students who plan to pursue graduate studies in English, and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization, and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental advisor for minors. Students should choose courses on the basis of their backgrounds, their major programs, and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as The English Club and Sigma Tau Delta Honor Society, through publications like *The Winged Lion*, and in projects like the Annual Colloquium and the English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page 34 under Area 2, section B and C. English 101 is a prerequi-

site to all courses except English 80 and 111. English 102, 103, or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 sequentially in their freshman year.

BACHELOR OF ARTS WITH A MAJOR IN ENGLISH

	Semester Hours
Core Curriculum Requirements (page 34) 51*	45
Foreign Language (two courses in one language)	10
English Requirements	42
Eng 301 Modern Grammar	
OR	
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives**	36
Electives	31
	128***

*Two of the English courses listed under Area 2, sections B and C on page 34 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36 hours of English electives required for the ma-

**Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

***Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH

Plan A

One of Two Teaching Fields

	Semester Hours
Core Curriculum Requirements (page 34) 51*	42
English Requirements	30
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	

OR	
Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives**	15
Education Certification Requirements (page 114)	37
Second Teaching Field (some fields exceed 30 hours)	30
	139

*Six hours of literature from Area 2, sections B and C plus the required Psychology 110 satisfy Core Curriculum requirements.

**Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	42
English Requirements	42
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives**	27
Education Certification Requirements (pages 114-116)	37
Electives	7
	128

*Six hours of literature from Area 2, Sections B and C plus the required Psychology 110 satisfy Core Curriculum requirements.

**Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

MINOR IN ENGLISH

	Semester Hours
Eng 216, 310, or 315	3
Eng courses at the 300-400 level	9

School of Arts and Sciences

Eng Electives (beyond freshman composition) 9
21*

*Should be chosen in consultation with an advisor in the English department.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1501

English Major

Freshman Year

1st Semester

Course	Hours
CORE [Eng 101]	3
CORE [Hist 110 or 120]	3
CORE Foreign Language	5
CORE [Math 110 or equivalent]	3
CORE [HPER 101]	1
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102]	3
CORE [PSc 120]	3
CORE [Foreign Language]	5
Eng Elective	3
CORE [Hist 110, 120 or 320]	3
	17

Sophomore Year

1st Semester

Eng Elective	3
CORE [Comm 100]	3
CORE [Bio 101 or 110]	4
CORE [HPER 103]	2
Eng 310 Professional Writing or English elective	3

2nd Semester

Eng Elective	3
Eng Elective	3
CORE [Phys 100]	5
CORE [Psy 100 or Soc 110]	3
Eng 210 or 315 or elective	3
	17

Junior Year

1st Semester

Eng Elective	3
Eng 301 or Eng Elective	3
CORE [Econ 180]	3
Electives [Minor]	9
	18

2nd Semester

Eng 400 or Eng Elective	3
Eng Elective	3
CORE [Art 110, Mus 110, or Th 110]	3
Electives [Minor]	6
	15

Senior Year

1st Semester

Eng Elective	6
Electives [Minor]	6
CORE [International Cultural Studies]	3
	15

2nd Semester

Eng Electives	6
Electives [Minor]	9
	15

Students must choose one course from 216, 310, or 315. 310 is offered fall semesters only; 216 and 315 spring semesters only. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 34).

For additional information contact:

Dr. Joseph Lambert
Office: 314 Hearnese Hall
Phone: 625-9535

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0842

English Major (Plan B) Single Teaching Field

Note: Students following Plan A should consult an advisor in English and the other major to work out an individualized program.

Freshman Year

1st Semester

Course	Hours
CORE [Eng 101]	3
Psy 110 Psychology of Human Development	5
CORE [Hist 110 or 120]	3
CORE [Math 110 or equiv]	3
CORE [HPER 101]	1
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102]	3
Eng Elective	3
CORE [PSc 120]	3
CORE [Bio 101 or 110]	4
CORE [Econ 180]	3
	16

Sophomore Year

1st Semester

Eng Elective	3
Eng Elective	3
CORE [HPER 103]	2
CORE [Phys 100]	5
CORE [Art 110, Mus 110, or Th 110]	3
	16

2nd Semester

Eng Electives	6
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	3
CORE [Comm 100]	3
CORE [Hist 110, 120 or 320]	3
	17

Junior Year

1st Semester

Eng 301 Modern Grammar	3
Eng 310 or Eng Elective	3
Eng 319 Composition for Teachers	3
Educ 330 Structure of Teaching	2
Educ 331 Microteaching	2
Educ 370 Media Instruction	2
Educ 300 Clinical Experience	2
	17

2nd Semester

Eng 400 History of English Language	3
Eng 216 or 315 or Eng Elective	3
Eng 330 Literature for Adolescents	3
Educ 422 Teaching Reading	2
Eng Electives	6
	17

Senior Year

1st Semester

Eng Electives	9
Elective	3
CORE [International Cultural Studies]	3
	15

2nd Semester

Professional Semester, including Methods in Major 16

The department recommends two courses in American literature and two courses in English/world literature. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 34).

For additional information contact:

Dr. Joseph Lambert
Office: 314 Hearnese Hall
Phone: 625-9535

Foreign Languages and Literatures

FACULTY

Massa - Head, Bodon, Carney, Peterson

Training in foreign languages enables a student to prepare for employment in business and industry, teaching at the high school level, participating in bilingual programs, and teaching English as a second language. There are career opportunities both in the United States and abroad.

Missouri Southern offers a major and a minor in Spanish and sufficient courses in French and German to meet foreign language requirements for bachelor of arts degree candidates in various majors as well as to develop a keener awareness of the multi-cultural aspects of world society in general and the society of the United States in specific.

From time to time, Southern may offer classes in less common foreign languages.

Combining a major in Spanish with a major in business, in political science, or in communications is especially valuable. A minor in Spanish will enrich any student's educational experience.

A candidate for the bachelor of arts degree in any major is required to have 6-10 semester hours of a foreign language. This requirement may be met by any one of the following combination of courses: (a) French 101-102; or (b) German 101-102; or (c) Spanish 101-102.

BACHELOR OF ARTS WITH A MAJOR IN SPANISH

Semester Hours

Core Curriculum Requirements
(page 34) 51

Computer Literacy Requirement—
Comp 105 Intro to Microcomputer Use 3

Spanish Requirements* 34

Span 101 Beginning Spanish 5

Span 102 Intermediate Spanish 5

Span 201 Intermediate Spanish II 3

Span 202 Introduction to Hispanic Literature and Culture 3

Span 319 Survey of Peninsular Literature 5

Span 320 Spanish Syntax and Composition 5

Span 332 Introduction to Spanish American Literature 3

Span 440 The Novelistic Tradition** 3

Span 499 Independent Study 2

Supporting Requirements 6

PSc 321 International Relations OR

PSc 332 Comparative Government: Latin America 3

Comm 493 International Communication

OR

Geog 412 Geography and Culture of Latin America 3

Electives 34

128***

*A candidate for a degree in Spanish must also demonstrate proficiency in the language.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH

Plan A

One of Two Teaching Fields

Semester Hours

Core Curriculum Requirements
(page 34) 51* 48

Spanish Requirements** 32

Span 101 Beginning Spanish 5

Span 102 Intermediate Spanish 5

Span 201 Intermediate Spanish II 3

Span 202 Intro to Hispanic Literature & Culture 3

Span 319 Survey of Peninsular Literature 5

Span 320 Spanish Syntax and Composition 5

Span 332 Intro to Spanish American Literature 3

Span 440 The Novelistic Tradition*** 3

Education Certification Requirements
(page 114) 37

Second Teaching Field (some fields exceed 30 hours) 30

128****

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum.

**A candidate for a degree under Plan A must also demonstrate proficiency in Spanish.

***See Prerequisites

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH

Plan B

Single Teaching Field

Semester Hours

Core Curriculum Requirements
(page 34) 51* 48

Spanish Requirements** 34

Span 101 Beginning Spanish 5

Span 102 Intermediate Spanish 5

Span 201 Intermediate Spanish II 3

Span 202 Intro to Hispanic Literature & Culture 3

Span 319 Survey of Peninsular Literature 5

Span 320 Spanish Syntax and Composition 5

Span 332 Intro to Spanish American Literature 3

Span 440 The Novelistic Tradition*** 3

Span 499 Independent Study 2

Supporting Requirements 6

PSc 321 International Relations OR

PSc 332 Comparative Government: Latin America 3

Comm 493 International Communication

OR

Geog 412 Geography and Culture of Latin America 3

Education Certification Requirements
(page 114) 37

Electives 3

128

*Required course in psychology satisfies three hours of the Core Curriculum requirements.

**A candidate for a degree under Plan B must also demonstrate proficiency in Spanish.

***See Prerequisites

MINOR IN SPANISH

A minor in Spanish consists of 24 hours of Spanish to be selected with the prior approval of an appropriate advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1105

Spanish Major

Freshman Year

1st Semester

Course	Hours
Span 101 Beginning Spanish	5
CORE [Eng 101 Composition]	3
CORE [Comm 100 Oral Communication]	3
CORE [Math 110 Intro to College Math]	3
CORE [HPER 103 Lifetime Wellness]	1
Psy 120 College Orientation	1
	17

2nd Semester

Span 102 Intermediate Spanish	5
CORE [Eng 102 Composition]	3
CORE [Humanities and Fine Arts]	3
CORE [Phys 100 Fund of Physical Science]	5
CORE [HPER 101 Activities]	1
	17

School of Arts and Sciences

Sophomore Year

1st Semester		
Span 201	Intermediate Spanish II	3
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		16

2nd Semester

Span 202	Intro to Hispanic Literature & Culture	3
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Microcomputer Use	3
CORE	[Hist 320 U.S. History]	3
		15

Junior Year

1st Semester		
Span 332	Intro to Spanish American Literature	3
Span 319	Survey of Peninsular Literature	5
PSc 332	Comparative Gov't Latin America	

OR		
PSc 321	International Relations	3
CORE	[Econ 180 Am Economic System]	3
Elective*		17

2nd Semester

Span 320	Spanish Syntax and Composition	5
Comm 493	International Communication	
OR		
Geog 412	Geography and Culture of Latin America	3
Electives*		8
		16

Senior Year

1st Semester		
Span 499	Independent Study	2
Electives*		15
		17

2nd Semester

Span 440	The Novelistic Tradition	3
Electives*		10-12
		13-15

*Electives should be chosen in consultation with the student's major advisor and with the advice of a faculty member in a minor field of study, if one is chosen. Electives must include a minimum of 27 upper division hours.

[]Department Recommendation

For additional information contact:
Mr. Richard W. Massa
Office: MSTV
Phone: 625-9372

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0847

Spanish Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course		
Span 101	Beginning Spanish	5
CORE	[Eng 101 Composition]	3
CORE	[Comm 100 Oral Communication]	3
CORE	[Math 110 Intro to College Math]	3
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		17

2nd Semester

Span 102	Intermediate Spanish	5
Psy 110	Psychology of Human Development	5
CORE	[Eng 102 Composition]	3
CORE	[HPER 101 Activities]	1
CORE	[Humanities & Fine Arts]	3
		17

Sophomore Year

1st Semester

Span 201	Intermediate Spanish II	3
Educ 302	The Exceptional Child	2
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Physical Science]	5
CORE	[Hist 110 U.S. History]	3
		16

2nd Semester

Span 202	Intro to Hispanic Literature and Culture	3
Educ 422	Reading in Secondary Schools	2
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		17

Junior Year

1st Semester

Span 332	Intro to Spanish American Literature	3
Span 319	Survey of Peninsular Literature	5
Educ 300	Clinical Experiences	2
Educ 330	Structure of Teaching Secondary	2
Educ 331	Microteaching Secondary	2
Educ 370	Intro to Instructional Media	2
		16

2nd Semester

Span 320	Spanish Syntax and Composition	5
Comm 493	International Communication	
OR		
Geog 412	Geography and Culture of Latin America	3
Span 440	The Novelistic Tradition	3
PSc 332	Comparative Gov't Latin America	3

CORE	[Econ 180 Am Economic System]	3
		17

Senior Year

1st Semester

Span 499	Independent Study	2
CORE	[Hist 320 U.S. History]	3
Electives		7-9
		12-14

2nd Semester

Educ 402	Foundations of Education	2
Educ 432	Critical Issue in Education	2
Educ 345	Teaching Foreign Language in Sec. Schools	2
Educ 401	Use of Computer Software in Classroom	2
Educ 462	Student Teaching	8
Educ 412 or 412	Educ 420 or Educ 423 or Psy 412	2
		18

[]Department Recommendation

For additional information contact:
Mr. Richard W. Massa
Office: MSTV
Phone: 625-9372

Geography

FACULTY

Renner - Head, Smith

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

Though a major is not now offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social sciences advisor, take a geography minor consisting of 18 semester hours.

MINOR IN GEOGRAPHY

	Semester Hours
Geography 211 Regions and Nations	3
Choose 6 hours from:	6
Geog 311 Political Geography	3
Geog 322 Economic Geography	3
Geog 412 Geography and Culture of Latin America	3
Geog 422 Geography of the U. S. and Canada	3
Geog 498 Seminar in Geography	3
Choose 9 hours from:	9
Draf 230 Survey and Mapping	3
CJAD 210 Basic Photography	3
Comp 115 Computing I	3

Geol 300 Earth Environments	3
Geol 320 Historical Geology	3
PSC 322 International Law	3
PSC 332 Comparative Government: Latin America	3
Soc 155 Introduction to Anthropology	3
Soc 361 The Study of Populations*	3
Soc 402 The Community*	3
	18

*See Prerequisites

Geology

FACULTY

Baiamonte, Head

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

History

FACULTY

Renner - Head, Holman, Laas, Markman, Renner, Smith, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields, and for entry into graduate programs in the social sciences and law. A bachelor of science in education with a major in social studies—history emphasis—certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 74 for a social sciences minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements.

History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper-division history requirements.

History 130 or 140 is a prerequisite for all upper division European or Oriental history courses.

BACHELOR OF ARTS WITH A MAJOR IN HISTORY

	Semester Hours
Core Curriculum Requirements (page 34) 51*	42
Computer Literacy Requirement— determined by the Social Sciences Department	2-3
Foreign Language (two courses in one language)	10
History Requirements	33

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877 to Present 3

OR

Hist 320 United States History 1877 to Present 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** OR

Hist 499 Independent Study (Internship)** 3

Hist Upper Division United States** 6

Hist Upper Division European or Oriental** 6

Hist Upper Division Electives** 6

Electives 40-41

128***

*Required history courses satisfy major requirements and nine hours of Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

History Emphasis

Plan B Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	33
History Requirements	33
Hist 110 United States History 1492-1877	3
Hist 120 United States History 1877-Present	3

OR

Hist 320 United States History 1877-Present 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** OR

Hist 499 Independent Study (Internship)** 3

Hist Upper Division United States** 6

Hist Upper Division European or Oriental** 6

Hist Upper Division Electives** 6

Supporting Requirements 21

PSc 120 Gov't: U.S., State, & Local 3

PSc Upper Division Elective 3

Soc 110 Introduction to Sociology 3

Soc Upper Division Elective 3

Geog 211 Regions and Nations 3

Geog Upper Division Elective 3

Econ 180 American Economic System 3

Education Certification Requirements
(page 114) 37

Elective 4

128

*Required history, political science, sociology, and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

MINOR IN HISTORY

Semester Hours

Hist 110 U.S. History 1492-1877 3

Hist 120 U.S. History 1877-Present 3

OR

Hist 320 U.S. History 1877-Present 3

Hist 130 Western Civilization To 1660 3

OR

Hist 140 Western Civilization Since 1660 3

Hist Upper Division United States Elective* 3

Hist Upper Division European* 3

OR

Hist Upper Division Oriental Elective* 6

18

*Must be chosen with approval of history advisor.

School of Arts and Sciences

MINOR IN SOCIAL STUDIES FOR SECONDARY EDUCATION (page 74)

Suggested Order of Study

BACHELOR OF ARTS

Major Code 2205

History Major

Freshman Year

Course	Hours
Hist 110* U.S. History 1492-1877	3
CORE [Eng 101 Composition]	3
CORE [Math 110 Intro to College Math]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [HPER 101 Activities]	1
CORE [Humanities and Fine Arts]	3
Psy 120 College Orientation	1
	16

2nd Semester

Course	Hours
Hist 120* U.S. History 1877-Present	3
OR	
Hist 320* U.S. History 1877-Present	3
CORE [Eng 102 Composition]	3
CORE [PSc 120 Gov't: U.S., State & Local]	3
CORE [Bio 101 General Biology]	4
CORE [Comm 100 Oral Communication]	3
	16

Sophomore Year

Course	Hours
Hist 130 Western Civilization to 1660	3
Foreign Language	5
[Eng Literature]	3
CORE	3
Elective	6
	17

2nd Semester

Course	Hours
Hist 140 Western Civilization Since 1660	3
Foreign Language	5
CORE [Econ 180 American Economic System]	3
CORE [Soc 110 Intro to Sociology]	3
[Computer Literacy course selected with advisor's approval]	3
	17

Junior Year

Course	Hours
Hist	
CORE	
	3
CORE	5
CORE	3
CORE	3
Elective	2
	16

2nd Semester

Course	Hours
Hist	3
Upper Division U.S. (not 320)	12
Electives [A minor is suggested]	15

Senior Year

Course	Hours
Hist	3
Upper Division European or Oriental	
Hist	3
Upper Division Elective (not 320)	9
Electives [A minor is suggested]	15

Course	Hours
Hist	3
Upper Division European or Oriental	
Hist	3
Upper Division Elective (not 320)	3
Hist 498 Seminar or Hist 499 Independent Study**	3
Electives [A minor is suggested]	16

*Also meets a Core Curriculum requirement.

**See Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Robert Markman

Office: 204 Mansion

Phone: 625-9547

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843

Social Studies Major (Plan B) Single Teaching Field

History Emphasis

Freshman Year

Course	Hours
Hist 110* U.S. History 1492-1877	3
CORE [Eng 101 Composition]	3
Psy 110 Psychology of Human Development	5
CORE [Math 110 Intro to College Math]	3
Psy 120 College Orientation	1
	15

2nd Semester

Course	Hours
Hist 120* U.S. History 1877-Present	3
OR	
Hist 320* U.S. History 1877-Present	3
CORE [Eng 102 Composition]	3
PSc 120* Gov't: U.S., State & Local	3
CORE [Bio 101 General Biology]	4
CORE [HPER 101 Activities]	1
Elective	3
	17

Sophomore Year

Course	Hours
Hist 130 Western Civilization to 1660	3
CORE [Comm 100 Oral Communication]	3
CORE [Eng Literature]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Phys 100 Fund of Physical Science]	5
	16

2nd Semester

Course	Hours
Hist 140 Western Civilization 1660 to Present	3
Geog 211 Regions and Nations	3
Soc 110* Intro to Sociology	3
CORE [Humanities and Fine Arts]	3
Psy 310 Educational Psychology	2
Educ 302 Exceptional Child	2
	16

Junior Year

Course	Hours
Hist	3
Econ 180* American Economic System	3
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
Educ 401 Use of Computer Software in Classroom	2
	16

2nd Semester

Course	Hours
Hist	3
Hist	3
Upper Division U.S. (not 320)	
Hist	3
Upper Division European or Oriental	
Soc 342* Comparative Cultures	3
Hist	3
Upper Division Elective (not 320)	
PSc	3
Upper Division Elective	3
	15

Senior Year

Course	Hours
Hist	3
Upper Division Elective (not 320)	
Hist	3
Upper Division European or Oriental	
Hist 498 Seminar in History	3
OR	
Hist 499 Internship	3
Geog	3
Upper Division Elective	3
CORE [Humanities and Fine Arts]	3
Educ 422 Reading in the Secondary School	2
	17

Course	Hours
2nd Semester	
Professional Semester	16

See page 115 for specific education department requirements.

*Also meets a Core Curriculum requirement.

For additional information contact:

Dr. G. K. Renner

Office: 117 Mansion

Phone: 625-9565

Mathematics

FACULTY

Martin - Head, Cassens, Elick, Fulton, Hand, Jolly, Livingston, Mulkey, Shields, Simpson, Thuong

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management, and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or

above can be used to satisfy departmental mathematics requirements.

BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICS

	Semester Hours
Core Curriculum Requirements (page 34) 51*	43
Mathematics Requirements	39
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math Electives numbered above 320	21
Supporting Requirements	18
Physics and/or chemistry electives- must include at least one course from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300)	15
Comp 120 (or above)	3
Electives	28
	128***

*Required mathematics, chemistry, and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300—400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major in mathematics.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS

Plan A

One of Two Teaching Fields

	Semester Hours
Core Curriculum Requirements (page 34) 51*	45
Mathematics Requirements	30
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5

Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra**	
OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	6
Supporting Requirements	3
Comp 120 (or above, substitutes for Educ 401)	3
Education Certification Requirements (page 114)	35
Second teaching field (some fields exceed 30 hours)	30
	143****

*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

**See Prerequisites

***Consult advisor to satisfy state certification requirements.

****(varies with 2nd field)

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major in mathematics education.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	40
Mathematics Requirements	33
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra**	
OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	9
Supporting Requirements	13

School of Arts and Sciences

Physics and/or Chemistry electives—
must include courses from both
(excluding Chem 100, Phys 100, Phys
120, Phys 140, Phys 180) 10
Comp 120 (or above, substitutes for
Educ 401) 3

Education Certification Requirements
(page 114) 35
Electives 7

*Required courses in mathematics, chem-
istry, physics, and psychology satisfy ma-
jor requirements and 11 hours of the Core
Curriculum.

**See Prerequisites

***Consult advisor to satisfy state certi-
fication requirements.

Only courses in which a student has
earned a grade of "C" or above can be
used to satisfy departmental mathematics
requirements for the major in mathemat-
ics education.

MINOR IN MATHEMATICS

	Semester Hours
Math 150 Calculus with Analytic Geometry I	5
Math 250 Calculus with Analytic Geometry II	5
Math electives numbered above 250	11
	21

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 1701
Mathematics

Freshman Year

1st Semester	Course	Hours
Math 150	Calculus I	5
Chem 101	General Chemistry I	5
CORE	[Eng 101 Composition]	3
CORE	[Area 2 Elective]	3
Psy 120	College Orientation	1
		17

2nd Semester	Course	Hours
Math 250	Calculus II	5
CORE	[Eng 102 Composition]	3
Phys 250	General Physics	4
Comp 120	Fortran (or higher)	3
CORE	[Comm 100 Oral Communication]	3
		18

Sophomore Year

1st Semester	Course	Hours
Math 260	Calculus III	5
CORE	[Econ 201 Principles of Economics]	3
CORE	[Hist 110]	3
CORE	[HPER 103 Lifetime Wellness]	2
Phys	or Chemistry Electives*	3-5
		16-18

2nd Semester	Course	Hours
Math 300	Fundamentals of Math Thought	3
Math	Elective [322]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Area 2 Elective]	3
CORE	[Hist 120 or Hist 320]	3
		15

Junior Year

1st Semester	Course	Hours
Math	Electives**	6
CORE	[Area 2 Elective]	3
Chem	or Physics Electives*	3-5
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		15-17

2nd Semester	Course	Hours
Math	Electives**	6
CORE	[Bio 101 General Biology]	4
CORE	HPER 101	1
CORE	[Area 5 Elective]	3
Elective		3
		17

Senior Year

1st Semester	Course	Hours
Math	Electives**	6
Electives		9
		15

2nd Semester	Course	Hours
Math	Electives**	6
Electives		9
		15

*See requirements and exclusions on this page.

**Electives must be approved by math advisor.

[] Department Recommendations

For additional information contact:

Dr. J. Larry Martin
Office: 212 Reynolds Hall
Phone: 625-9540

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0833

**Mathematics Major (Plan B) Single Teaching
Field**

Freshman Year	Course	Hours
1st Semester		
Course		5
Math 150	Calculus I	5
CORE	[Eng 101 Composition]	3
Psy 110	Psychology of Human Development	5
CORE	[HPER 103 Lifetime Wellness I]	3
Psy 120	College Orientation	1
		17

2nd Semester	Course	Hours
Math 250	Calculus II	5
Chem 101*		5
CORE	[Eng 102 Composition]	3
Comp 120	Fortran (or higher)	3
		16

SOPHOMORE YEAR

1st Semester	Course	Hours
Math 260	Calculus III	5
Phys 250*		5
CORE	[Comm 100]	3
CORE	[Area 2 Elective]	3
CORE	[HPER 101]	1
		17

2nd Semester	Course	Hours
Math 300	Fundamentals of Math Thought	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110]	3
CORE	[Area 2 Elective]	3
Elective		3-5
		16-18

Junior Year

1st Semester	Course	Hours
Math 332		3
OR		3
Math 361		3
Math	Elective**	2
Educ 300	Clinical Experience	2
Educ 330	Structures of Teaching	2
Educ 331	Micro Teaching	2
Educ 370	Instructional Media	3
CORE	[Hist 120 or Hist 320]	3
		17

2nd Semester	Course	Hours
Math	Electives**	6
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
CORE	[Area 2 Elective]	3
		16

Senior Year

1st Semester	Course	Hours
Math 332		3
OR		3
Math 361		3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[Econ 180 American Economic System]	3
Elective		3
		15

2nd Semester	Course	Hours
Educ 339	Math Methods	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2

Educ 422	Reading in Secondary School	2
Required		
Elective	[Educ 412, 420, 423, or Psy 412]	2
Educ 462	Student Teaching	8
		18

*See requirements and exclusions on page 62.

**Electives must be approved by math advisor.

[] Department Recommendations

For additional information contact:

Dr. J. Larry Martin

Office: 212 Reynolds Hall

Phone: 625-9540

Music

FACULTY

Havely - Head, Carnine, Chung, Elliott, Harrell, Harris, Lancaster, Meeks, O'Boyle, Thelen

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

BACHELOR OF ARTS WITH A MAJOR IN MUSIC

	Semester Hours
Core Curriculum Requirements (page 34)	51

Computer Literacy Requirement—determined by the music department 2-3

Foreign Language (two courses in one language) 10

Music Requirements 72

Mus 109 Sight-singing and Ear-training 2

Mus 210 Sight-singing and Ear-training* 2

Mus 111 Music Theory 3

Mus 112 Music Theory* 3

Mus 182 Conducting Techniques 2

Mus 211 Music Theory* 3

Mus 212 Music Theory* 3

Mus 240 Recital Attendance (8 semesters) 0

Mus 311 History of Music 3

Mus 312 History of Music 3

Mus 420 Form and Analysis* 3

Mus 431	Orchestration*	3
Mus 444	Advanced Conducting Techniques*	2
Mus 450	Senior Recital Large Music Ensemble (8 semesters)	0

Private Study In One Area (8 semesters)	16
Applied Piano Elective (Except Keyboard Majors)	8
(Keyboard Majors must take 8 semester hours of music electives in lieu of the applied piano elective.)	135-136**

*See Prerequisites

**Must include at least 40 upper division (300—400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B Single Teaching Field

Option 1 Instrumental Emphasis

	Semester Hours
Core Curriculum Requirements (page 34) 51*	48

Music Requirements 74

Mus 109 Sight-singing and Ear-training 2

Mus 210 Sight-singing and Ear-training** 2

Mus 111 Music Theory 3

Mus 112 Music Theory** 3

Mus 182 Conducting Techniques 2

Mus 211 Music Theory** 3

Mus 212 Music Theory** 3

Mus 231 String Techniques 1

Mus 232 Brass Techniques 1

Mus 233 Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a second semester of Mus 232 or 234.) 1

Mus 234 Woodwind Techniques 1

Mus 240 Recital Attendance (7 semesters) 0

Mus 311 History of Music 3

Mus 312 History of Music 3

Mus 333 Music for the Elementary Grades*** 2

Mus 411 Marching Band Methods** 2

Mus 420 Form and Analysis** 3

Mus 431 Orchestration** 3

Mus 432 Music in the Public School 2

Mus 444 Advanced Conducting Techniques** 2

Mus 450	Senior Recital	0
Mus	Vocal/Choral Elective	2
Mus	Piano/Wind Instrument	2

(a) Instrumental Major: other than piano: two semester hours of piano study or the equivalent (class piano may be included).

(b) Piano Major: Two semester hours of private study on a wind instrument or the equivalent. The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private Study as a major in one area (7 semesters) 14

Large Ensemble (7 Semesters) 14

Brass, woodwind, or percussion major: the seven semesters of large ensemble must be in band.

String Major: the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements (page 114) 37

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

**See Prerequisites

*** (Must be completed prior to the "Professional Semester" of supervised teaching.)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B Single Teaching Field

Option II Vocal Emphasis

	Semester Hours
Core Curriculum Requirements (page 34) 51*	48

Music Requirements 74

Mus 109 Sight-singing and Ear-training 2

Mus 210 Sight-singing and Ear-training 2

Mus 111 Music Theory 3

Mus 112 Music Theory** 3

Mus 182 Conducting Techniques 2

Mus 211 Music Theory** 3

Mus 212 Music Theory** 3

Mus 240 Recital Attendance (7 semesters) 0

Mus 309 Choral Techniques 2

Mus 311 History of Music 3

Mus 312 History of Music 3

School of Arts and Sciences

Mus 333 Music for the Elementary Grades**	2
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School***	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital	0
Mus Instrumental Elective	2
Mus Piano/Voice	6
(a) Piano Major: Six semester hours of private voice study or the equivalent	
(b) Voice Major: Six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of Mus 214)	
The Requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of Mus 214 constitutes passing the Piano Proficiency Test.	
Private study as a major in one area (7 semesters)	14
Concert Chorale (7 Semesters)	14
Education Certification Requirements (page 114)	37
	159

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B Single Teaching Field Option III Double Certification

Semester Hours

Core Curriculum Requirements (page 34) 51*	48
Music Requirements	108
All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement	86
Private study as an applied major in one primary area (seven semesters)	14
Private study as an applied elective in one secondary area (four semesters) A proficiency test in the secondary major area must be passed before graduation	8

A senior recital will be required only in the primary applied area.
Education Certification requirements (page 114) **37**
193

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

MINOR IN MUSIC

	Semester Hours
Mus 111 Music Theory	3
Mus 112 Music Theory	3
Large Ensemble	4
Applied Music Elective (Two Semesters)	2
Music Electives*	9
	21

*Must be made with prior approval of music advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1005

Music Major

Freshman Year

1st Semester	Course	Hours
Mus 111	Music Theory	3
Mus 207	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[Eng 101 Composition]	3
CORE	[Mus 110 Music Appreciation]	3
Psy 120	College Orientation	1
		15-16

2nd Semester

Course		Hours
Mus 112	Music Theory	3
Mus 109	Sight Singing & Ear Training	2
Mus 208	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[Eng 102 Composition]	3
CORE	[Math 110 Intro to College Math]	3

Sophomore Year

1st Semester	Course	Hours
Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 P.E. Activities]	1

CORE	[Hist 110 U.S. History]	3
CORE	[Econ 180 American Economic System]	3
		19-20

2nd Semester

2nd Semester		Hours
Course		
Mus 212	Music Theory	3
Mus 208	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psy 100 General Psychology]	3
		18-19

Junior Year

1st Semester	Course	Hours
Mus 182	Conducting Techniques	2
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[Comm 100 Oral Communication]	3
CORE	[Foreign Language]	5
		18-19

2nd Semester

Course		Hours
Mus 444	Advanced Conducting	2
Mus 408	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus 431	Orchestration	3
Mus	Applied Piano or Music Elective	1-
Mus	Large Ensemble	2
CORE	[Art 110 or Th 110	
	Appreciation]	
CORE	[Foreign Language]	

Senior Year

1st Semester	Course	Hours
Mus 311	History of Music	3
Mus 407	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	Applied Piano or Music Elective	1-2
Mus	Large Ensemble	2
CORE	[Phys 100 Fund of Physical Science]	5
CORE	[Eng 281 or 282 Literature]	3
		16-17

2nd Semester

Course		Hours
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus 450	Senior Recital	1-2
Mus	Large Ensemble	2
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
Educ 401	Use of Computer Software in Classroom (Or computer course approved by music dept.)	2

CORE [Soc 342 Comparative Cultures] 3
16-17

[] Department Recommendation

For additional information contact:
Mr. Pete Havely
Office: 216 Music Building
Phone: 625-9318

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832
Music Major (Plan B) Single Teaching Field

Piano Major With Vocal Emphasis

Freshman Year

1st Semester	Course	Hours
Mus 111	Music Theory	3
Mus 207	Applied Music-Major Piano	2
Mus 105	Applied Music-Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Composition]	3
CORE	[Econ 180 American Economic System]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Appreciation]	3
Mus	Instrumental Elective	1-2

2nd Semester

Course	Hours
Mus 112	Music Theory 3
Mus 109	Sight-singing & Ear-training 1
Mus 208	Applied Music Major Piano 2
Mus 106	Applied Music Voice 2
Mus 121	Choir 2
Mus 240	Recital Attendance Cr
CORE	[Eng 102 Composition] 3
CORE	[Math 110 Intro College Math] 3
Mus	Instrumental Elective 1-2

Sophomore Year

1st Semester	Course	Hours
Mus 310	Vocal Techniques	2
Mus 211	Music Theory	3
Mus 210	Sight-singing & Ear-training	2
Mus 207	Applied Music Major Piano	2
Mus 105	Applied Music Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 Activities]	1
Psy 110	Human Growth & Development	5
CORE	[Eng 281 or 282 American Literature]	3
		23

2nd Semester

Course	Hours
Mus 212	Music Theory 3
Mus 208	Applied Music Major Piano 2
Mus 106	Applied Music Voice 1
Mus 121	Choir 2
Mus 240	Recital Attendance Cr
CORE	[Hist 110 U.S. History] 3
CORE	[Comm 100 Oral Communication] 3

CORE [Bio 101 General Biology] 4
CORE [PSc 120 Gov't: U.S., State, & Local]

Junior Year

1st Semester	Course	Hours
Mus 182	Conducting	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major Piano	2
Mus 305	Applied Music Voice	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2

2nd Semester

Course	Hours
Mus 444	Advanced Conducting 2
Mus 312	History of Music 3
Mus 408	Applied Music Major 2
Mus 306	Applied Music Voice 1
Mus 321	Choir 2
Mus 240	Recital Attendance Cr
Mus 333	Music in Elementary Grades 2
Mus 431	Orchestration 3
Educ 302	Exceptional Child 2
CORE	[Hist 320 U.S. History] 3
CORE	[Art 110 or Th 110 Appreciation] 3

Senior Year

1st Semester	Course	Hours
Mus 421	Choir	2
Mus 432	Music in Public Schools	2
Mus 408	Applied Music Major	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (Or computer course approved by Music Dept)	2
Educ 422	Teaching Reading in Secondary Schools	2
CORE	[Soc 342 Comparative Cultures]	3

2nd Semester

Course	Hours
Mus 335	Teaching Music in Secondary School 2
Educ 402	Foundations of Education 2
Educ 432	Critical Issues in Education 2
Educ 420	Introduction to Counseling OR
Psy 412	Measurement & Evaluation in Education 2
Educ 464	Student Teaching 8
	16

[] Department Recommendation

3 For additional information contact:
21 Mr. Pete Havely
Office: 216 Music Building
Phone: 625-9318

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832
Music Major (Plan B) Single Teaching Field

Piano Major With Instrumental Emphasis

Freshman Year

1st Semester	Course	Hours
Mus 111	Music Theory	3
Mus 231	OR	
Mus 233	String/Percussion Techniques	1
Mus 207	Applied Music Major Piano	2
Mus 191	Band	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Composition]	3
CORE	[Econ 180 American Economic System]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Appreciation]	3
		18

2nd Semester

Course	Hours
Mus 232	OR
Mus 234	Brass/Woodwind Techniques 1
Mus 109	Sight-Singing & Ear-Training 2
Mus 208	Applied Music Major Piano 2
Mus 192	Band 2
Mus 240	Recital Attendance Cr
CORE	[Eng 102 Composition] 3
CORE	[HPER 103 Lifetime Wellness] 2
CORE	[HPER 101 Activities] 1
CORE	[Math 110 Intro to College Math] 3
	16

Sophomore Year

1st Semester	Course	Hours
Mus 231	OR	
Mus 233	String/Percussion Techniques	1
Mus 121	OR	
Mus 310	Choir or Vocal Techniques	2
Mus 211	Music Theory	3
Mus 210	Sight-singing & Ear-training	2
Mus 207	Applied Music Major Piano	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
Psy 110	Human Growth & Development	5
		18

2nd Semester

Course	Hours
Mus 232	OR
Mus 234	Brass/Woodwind Techniques 1
Mus 212	Music Theory 3

School of Arts and Sciences

Mus 208	Applied Music Major Piano	2
Mus 292	Band	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Communication]	3
CORE	[Eng 281 or 282 American Literature]	3
		21

Educ 420	Intro to Counseling	2
OR		
Psy 412	Measurement & Evaluation in Education	2
Educ 464	Student Teaching	8
		16

[] Department Recommendation

For additional information contact:
Mr. Pete Havely
Office: 216 Music Building
Phone: 625-9318

Junior Year

1st Semester		Hours
Course		
Mus 182	Conducting Techniques	2
Mus 305	Applied Music Woodwind/Brass	1
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major Piano	2
Mus 391	Band	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structure of Teaching	2
	Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
		21

2nd Semester		Hours
Course		
Mus 444	Advanced Conducting	2
Mus 306	Applied Music Woodwind/Brass	1
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 392	Band	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elementary Grades	2
Mus 431	Orchestration	3
Educ 302	Exceptional Child	2
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
CORE	[Art 110 or Th 110 Appreciation]	3
TOTAL		23

Senior

1st Semester		Hours
Courses		
Mus 411	Marching Band Methods	1
Mus 491	Band	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (or computer course approved by music dept.)	2
Educ 422	Techniques of Reading	2
CORE	[Soc 342 Comparative Cultures]	3
		21

2nd Semester		Hours
Course		
Mus 335	Teaching Music in Secondary School	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832

Music Major (Plan B) Single Teaching Field

Vocal Major

Freshman

1st Semester

Course		Hours
Mus	Instrumental Elective	1-2
Mus 111	Music Theory	3
Mus 207	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Composition]	3
CORE	[Econ 180 American Economic System]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Appreciation]	3
		19-20

2nd Semester

Course		Hours
Mus 112	Music Theory	2
Mus	Instrumental Elective	1-2
Mus 109	Sight-singing & Ear-training	2
Mus 208	Applied Music Voice	2
Mus 114	Class Piano	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Composition]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 Activities]	1
CORE	[Math 110 Intro to College Math]	3
		19-20

Sophomore

1st Semester

Course		Hours
Mus 310	Vocal Techniques	2
Mus 213	Class Piano	1
Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Voice	2
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 American Literature]	3
Psy 110	Human Growth & Development	5
		20

2nd Semester		Hours
Course		
Mus 214	Class Piano	1
Mus 212	Music Theory	3
Mus 208	Applied Music Voice	2

Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Communication]	3
CORE	[Art 110 or Th 110 Appreciation]	3
		21

Junior

1st Semester		Hours
Course		
Mus 182	Conducting Techniques	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Voice	2
Mus 305	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching	2
	Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
		21

2nd Semester

Course		Hours
Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Voice	2
Mus 306	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elementary Grades	2
Mus 431	Orchestration	3
Educ 302	Exceptional Child	2
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		20

Senior

1st Semester		Hours
Course		
Mus 421	Choir	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
CORE	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (or computer course approved by Music Dept.)	2
Educ 422	Teaching Reading in Secondary Schools	2
CORE	[Soc 342 Comparative Cultures]	3
CORE	[Hist 320 U.S. History]	3
		21

2nd Semester		Hours
Course		
Mus 335	Teaching Music in Secondary School	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 420	Intro Counseling	2
OR		

Psy 412 Measurement & Evaluation in Education
Educ 464 Student Teaching

2
8
16

Mus 151 Band or Orchestra
Mus 240 Recital Attendance
CORE [Eng 281 or 282 American Literature]
Psy 110 Human Growth & Development

2
Cr
3
5
21

Mus 408 Applied Music Major
Mus 450 Senior Recital
Mus 240 Recital Attendance
Psy 310 Educational Psychology
CORE [Phys 100 Fund Physical Science]
CORE [Soc 342 Comparative Cultures]
Educ 401 Use of Computer Software In Classroom (or computer course approved by Music Dept.)
CORE [Hist 320 U.S. History]

2
Cr
Cr
2
5
3
2
3
23

[] Department Recommendation

For additional information contact:
Mr. Pete Havely
Office: 216 Music Building
Phone: 625-9318

BACHELOR OF SCIENCE IN EDUCATION Major Code 0832 Music Major (Plan B) Single Teaching Field

Instrumental Major Freshman Year

1st Semester

Course
Mus 111 Music Theory
Mus 207 Applied Music Major
Mus 113 Class Piano
Mus 191
OR
Mus 151 Band/Orchestra
Mus 231
OR
Mus 233 String/Percussion Techniques
Mus 240 Recital Attendance
CORE [Eng 101 Composition]
CORE [Econ 180 American Economic System]
Psy 120 College Orientation
CORE [Mus 110 Music Appreciation]

Hours
3
2
1

2

1
Cr
3
3
1
3
19

Junior Year

1st Semester

Course
Mus 182 Conducting Techniques
Mus 311 History of Music
Mus 420 Form & Analysis
Mus 407 Applied Music Major
Mus 391
OR
Mus 351 Band or Orchestra
Mus 240 Recital Attendance
Educ 300 Clinical Experiences
Educ 330 Structures of Teaching
Educ 331 Microteaching
Educ 370 Instructional Media
CORE [Art 110 or Th 110 Appreciation]

Hours
2
Cr
2
2
2
2
3
23

2nd Semester

Course
Mus 444 Advanced Conducting
Mus 312 History of Music
Mus 408 Applied Music Major
Mus 392
OR
Mus 352 Band or Orchestra
Mus 240 Recital Attendance
Mus 333 Music in Elementary Grades
Mus 431 Orchestration
CORE [PSc 120 Gov't: U.S., State, & Local]
Educ 302 Exceptional Child
Educ 422 Teaching Reading in Secondary Schools

Hours
2
Cr
2
2
2
2
3
3
2
2
21

[] Department Recommendation

For additional information contact:
Mr. Pete Havely
Office: 216 Music Building
Phone: 625-9318

Paralegal Studies

FACULTY

Renner - Head, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, pre-law, business law, and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the

Sophomore Year

1st Semester

Course
Mus 121
OR
Mus 310 Choir or Vocal Techniques
Mus 213 Class Piano
Mus 211 Music Theory
Mus 210 Sight Singing & Ear Training
Mus 207 Applied Music Major
Mus 231
OR
Mus 233 String/Percussion Techniques
Mus 191
OR

Hours
2
1
3
2
2
1
20

Senior Year

1st Semester

Course
Mus 391
OR
Mus 351 Band or Orchestra
Mus 411 Marching Band Methods
Mus 432 Music in Public School

Hours
2
2
2

School of Arts and Sciences

requirements for the minor. Students must have an advisor in paralegal studies.

MINOR IN PARALEGAL STUDIES

	Semester Hours
PLS 201 Introduction to Legal Assistance	3
PLS 302 Legal Research	3
Electives from the following:	15
PLS 298 Topics in Paralegal Studies	3
PLS 311 Property*	3
PLS 312 Civil Litigation*	3
PLS 320 Family Law*	3
PLS 401 Wills, Trusts and Probate*	3
GB 301 Business Law I	3
GB 302 Business Law II	3
PSc 431 Constitutional Law I	3
PSc 432 Constitutional Law II	3
PLS 491 Internship**	3
PLS 498 Senior Seminar**	3
PLS 499 Independent Study**	3
OR	
One of the following:	3
LE 250 Criminal Law	
PSc 322 International Law	
GB 411 Labor Law	
	21

*Highly recommended.

** See Prerequisites

Suggested Order of Study

ASSOCIATE OF ARTS

Major Code 7999

Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)

Freshman Year

Course	Hours
PLS 201 Intro to Legal Assistance	3
PLS 302 Legal Research	3
CORE [Eng 101 Composition]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Psy 120 College Orientation	1
CORE [HPER 103 Lifetime Wellness]	2
CORE [HPER 101 Activities]	1
	16

2nd Semester

Course	Hours
CORE [Eng 102 Composition]	3
CORE [Hist 110 U.S. History 1492-1877]	3
OR	
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Math 110 Intro to College	

CORE Math]	3
PLS [Biology 101 General Biology	4
Upper Division Electives	3
	16

Sophomore Year

Course	Hours
CORE [Econ 180 American Economic System]	3
CORE [Phys 100 Fundamentals of Physical Science]	5
CORE [Humanities and Fine Arts]	3
PLS Upper Division Electives	6
	17

2nd Semester

Course	Hours
CORE [Comm 100 Oral Communication]	3
CORE [Literature]	3
CORE [Humanities and Fine Arts]	3
PLS 491 Internship	3
PLS Upper-Division Elective	3
	15

[] Department Recommendation
Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts, and Probate.

For Additional Information Contact:

Dr. Michael Yates
Office: 202 Mansion
Phone: 625-9333

Philosophy

FACULTY

Lambert - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought—science, religion, art, morality, and politics—and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points, and how to state issues clearly and precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government, and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management, and theological seminaries.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a

course in Critical Thinking (Phil 140 or 300), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course), and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level.

Physics

FACULTY

Baiamonte - Head, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government, secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty advisor, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 139)

BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICS

	Semester Hours
Core Curriculum Requirements (page 34) 51*	43
Physics Requirements 36	36
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 341 Thermal Physics**	4
Phys 372 Electronic Circuits**	4
Phys 381 Intermediate Physics Laboratory**	3
Phys 401 Electricity and Magnetism**	4
Phys 452 Quantum Mechanics**	
OR	
Phys 480 Selected Topics in Physics & Engineering	3
Phys 498 Seminar	1
Supporting Requirements 26	26
Chem 101 General Chemistry I**	5
Math 150 Calculus with Analytical Geometry I**	5

Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Math 322	Differential Equations**	3
Comp 120	Fortran	3
Electives***		23

128****

*Required physics, chemistry, and mathematics courses satisfy major requirements and eight hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 102, Comp 200, Math 351, Math 431, and Phys 480)

****Must include at least 40 upper division (300—400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

Plan A

One of Two Teaching Fields

	Semester Hours
Core Curriculum Requirements (page 34) 51*	36
Physics Requirements	22
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
Supporting Requirements	27
Chem 101 General Chemistry I**	5
Bio 110 Man and Environment	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 120 Fortran (in place of Educ 401)	3
Education Certification Requirements (page 114)	35
Second Teaching Field (some fields exceed 30 hours)	30

150***

*Required physics, chemistry, mathematics, biology, and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Varies with 2nd field

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	36
Physics Requirements	26
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
Physics Upper Division Electives	4
Supporting Requirements	27
Chem 101 General Chemistry I**	5
Bio 110 Man and Environment	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 120 Fortran (in place of Educ 401)	3
Education Certification Requirements (page 114)	35
Electives***	4

128

*Required physics, chemistry, mathematics, biology, and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 102, Phys 372, and Geol 110)

MINOR IN PHYSICS

	Semester Hours
Phys 250 General Physics I	5
Phys 260 General Physics II	5
Physics Upper Division Electives (Excluding Phys 300)	8
Total	18

Suggested Orders of Study

BACHELOR OF SCIENCE
Major Code 1902
Physics Major

Freshman Year

Course	Hours
1st Semester	
Math 150	Calculus I 5
Chem 101	Gen Chem I (Alg & Trig) 5
CORE	[Eng 101 Composition] 3
Physics	[Phys 140 Essential Skills in Physics] 3
Psy 120	College Orientation 1
	17

2nd Semester

Phys 250	Gen Physics I (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 Gen Chem II]	5
CORE	[Eng 102 Composition]	3
	18	

Sophomore Year

1st Semester		
Phys 260	Gen Physics II (Phys 250)	5
Math 260	Calculus III (Math 250)	5
Comp 120	Fortran	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Hist 110 U. S. History]	3
		18

2nd Semester

2nd Semester:		Hours
Course		
Phys 322	Classical Mechanics	
OR		
Phys 341	Thermal Physics	3-4
Phys 372	Electronic Circuits	4
Math 322	Differential Equations	3
CORE	[Hist 120 or Hist 320 U.S. History]	3
CORE	[Econ 180 American Economic System]	3
CORE	[HPER 101 Activities]	1
		17-18

Junior Year

1st Semester		
Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab	
OR		
Phys 401	Electricity & Magnetism	3-4
CORE	[Bio 101 General Biology or Bio 110 Man and Environment]	4
CORE	[Humanities and Fine Arts-A]	3
CORE	[Psy 100 General Psychology or Soc 110 Sociology]	3
		17-18

2nd Semester

Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mechanics	4-3
Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Math	Elective	3
CORE	[Comm 100]	3
CORE	[Humanities & Fine Arts—B]	3
	16-15	

School of Arts and Sciences

Senior Year

1st Semester

Phys 401	Electricity & Magnetism	
OR		
Phys 381	Intermediate Physics Lab	4-3
CORE	[Humanities & Fine Arts—C]	3
CORE	[PSc 120 Gov't: U.S. State, & Local]	3
Phys or Math Elective		3
Electives		3

2nd Semester		
Phys 322	Classical Mechanics	
OR		
Physics	Elective [Phys 373 Electronic Circuits]	3-4
Elective	[Math 322 Differential Equations] (Math 260)	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology (Psy 110)	2
CORE	[Hist 110 U. S. History]	3
CORE	[Comm 100]	3

2nd Semester

Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Phys 498	Seminar	1
CORE	[International Cultural Studies]	3
Electives		9

Junior Year

1st Semester

Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab	3
OR		
Physics Elective		3
Educ 300	Clinical Experience	2
Educ 330	Structure of Teaching/Secondary	2
Educ 331	Microteaching	2
Educ 370	Introduction to Instructional Media	2
CORE	[Hist 120 or Hist 320 U.S. History]	3

() Prerequisite

[] Department Recommendation

Students should enroll in Comp 120 Computing II before the junior year.

For additional information contact:

Dr. Russell Phillips

Office: 208 Reynolds Hall

Phone: 625-9719

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0848

Physics Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course		Hours
Chem 101	Gen Chem I (Alg & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Composition]	3
Physics	[Phys 140 Essential Skills in Physics]	3
Psy 120	College Orientation	1
CORE	[HPER 101 Activities]	1

2nd Semester		
Phys 322	Classical Mechanics	
OR		
Physics	Elective [Phys 373 Electronic Circuits]	3-4
CORE	[Humanities & Fine Arts—A]	3
CORE	[Humanities & Fine Arts—B]	3
Bio 110	Man and Environment	4
CORE	[PSc 120 Gov't: U.S., State, & Local]	3

Senior Year

1st Semester

Phys 381	Intermediate Physics Lab	3
OR		
Physics Elective		2
Phys 498	Seminar	3
CORE	[Econ 180 American Economic System]	2
CORE	[Humanities & Fine Arts I—C]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[International Cultural Studies]	3

2nd Semester

Educ 333	Teaching Science in Secondary Schools	2
Educ 402	Foundations of Education	2
Educ 422	Reading in the Secondary School	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Secondary	8
Required		
Elective	Educ 412, 420, 423, or Psy 412	2

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Russell Phillips

Office: 208 Reynolds Hall

Phone: 625-9719

Political Science

FACULTY

Rennder - Head, St. Clair, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies—political science emphasis—certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other disciplines. In addition, see page 74 for a social sciences minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

Semester Hours

Core Curriculum Requirements

(page 34) 51*

Computer Literacy Requirement—determined by the social sciences department 2-3

Foreign Language (two courses in one language) 10

Political Science Requirements 36

PSc 120 Gov't: U.S., State, & Local 3

PSc Electives** chosen with approval of political science advisor 33

Electives 31-32 128***

*Political Science 120 satisfies major requirements and three hours of Core Curriculum.

**See prerequisites

***Must include at least 40 upper division (300—400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES Political Science Emphasis

Plan B

Single Teaching Field

	Semester Hours
Core Curriculum Requirements (page 34) 51*	33
Political Science Requirements	15
PSc 120 Government: U.S., State, & Local	3
PSc Upper Division Electives	12
Supporting Requirements	36
Hist 110 United States History 1492- 1877	3
Hist 120 United States History 1877- Present	3
OR	
Hist 320 United States History 1877- Present	3
Hist 130 Western Civilization to 1660	3
Hist 140 Western Civilization Since 1660	3
Hist Upper Division United States** (Not 320)	6
Hist Upper Division European or Oriental**	3
Soc 110 Introduction to Sociology	3
Soc Upper Division Elective**	3
Geog 211 Regions and Nations	3
Geog Upper Division Elective	3
Econ 180 American Economic System	3

Electives

Education Certification Requirements
(see pages 114) 37

128
*Required political science, history, sociology, and economics courses satisfy Major requirements and 18 hours of Core Curriculum.

**See Prerequisites

MINOR IN POLITICAL SCIENCE

	Semester Hours
PSc 120 Government: U.S., State, & Local	3
PSc Electives*	18
Total	21

*Must be chosen with approval of a Political Science Advisor.

Suggested Order of Study

BACHELOR OF ARTS

Major Code 2207

Political Science Major Freshman Year

1st Semester	Hours
Course	
PSc 120* Gov't: U.S., State, & Local	3
CORE [Eng 101 Composition]	3
CORE [Hist 110 U.S. History 1492- 1877]	3
CORE [Math 110 Intro to College Math]	3
CORE [Comm 100 Oral Communication]	3
Psy 120 College Orientation	1
	16

2nd Semester

Course	Hours
CORE [Econ 180 American Economic System]	3
CORE [Eng 102 Composition]	3
CORE [Hist 120 U.S. History 1877- Present]	3

OR

Course	Hours
CORE [Hist 320 U.S. History 1877- Present]	3
CORE [Bio 101 General Biology]	4
CORE [Humanities and Fine Arts]	3
	16

Sophomore Year

1st Semester	Hours
Course	
CORE [Eng Literature]	3
Foreign Language	5
CORE [Phys 100 Fund of Physical Science]	5
CORE [HPER 103 Lifetime Wellness]	2
CORE [HPER 101 Activities]	1
	16

2nd Semester

Course	Hours
PSc [Upper Division Elective Approved by Advisor]	3
Foreign Language	5
CORE [Soc 110 Introduction to Sociology]	3
Electives	6
	17

Junior Year

1st Semester	Hours
Course	
PSc [Upper Division]	6
CORE [Int. Cultural Studies Requirement]	3
[Computer literacy course selected with advisor's approval]	3
CORE [Humanities and Fine Arts]	3
	15

2nd Semester

Course	Hours
PSc [Upper Division]	9
Electives	8
	17

Senior Year

1st Semester	Hours
Course	
PSc [Upper Division Electives]	9
Electives [Upper Division]	6
	15

2nd Semester

Course	Hours
PSc [Upper Division Elective]	6
Electives [Upper Division]	10
	16

*Also meets a Core Curriculum requirement.
[] Department Recommendation.

For additional information contact:
Dr. Donald R. Youst
Office: 112 Mansion
Phone: 625-9588

BACHELOR OF ARTS OR SCIENCE

Major Code 7008

Pre-Law

Freshman Year

1st Semester	Hours
Course	
CORE [Eng 101 Composition]	3
CORE [Hist 110 U.S. History 1492- 1877]	3
CORE [Comm 100 Oral Communication]	3
CORE [Soc 110 Intro to Sociology]	3
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	15

2nd Semester

Course	Hours
CORE [Eng 102 Composition]	3
CORE [Math 131 Finite Math]	3
CORE [Bio 101 General Biology]	4
CORE [Eng Literature]	3
Psy 100 General Psychology	3
	16

Sophomore Year

1st Semester	Hours
Course	
CORE [Eng Literature]	3
Phil 201 Intro to Philosophy	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Phys 100 Fund of Physical Science]	5
Acct 201 Principles of Accounting I	3
	17

2nd Semester

Course	Hours
CORE [HPER 101 Activities]	1
Acct 202 Principles of Accounting II	3

School of Arts and Sciences

CORE	[Fine Arts Requirement]	3
Comp 105	Intro to Microcomputer Use	
OR		
Comp 115	Computing I	3
CORE	[Econ 180 American Economic System]	3
CORE	[Hist 120 U.S. Hist 1877-Present]	
OR		
CORE	[Hist 320 U.S. Hist 1877-Present]	3

Junior Year

1st Semester		
Course		
Eng 315	Exposition	3
CORE	[Int. Cultural Studies Requirement]	3
Electives*		10
		16

2nd Semester		
Course		
Electives*		16
Senior Year		
1st and 2nd Semesters*		32
		128

*Curriculum should be planned with the prelaw advisor. The major may be selected within almost any academic discipline emphasizing academic skills which will enable the student to perform well on the Law School Admission Test and in the rigorous studies of law school. The major will be determined by the student's interests and the type of law in which he or she plans to specialize.

For additional information contact:
Mrs. Annetta St. Clair
Office: 204 Mansion
Phone: 625-9547

Sociology

FACULTY

Renner - Head, Conboy, Gubera, Miller, Tate

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas

with special inter-personal, group and organizational knowledge and skills.

See page 74 for a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3, section C Natural and Behavioral Sciences; either Sociology 155 or 342 meet the requirement in Area 5, International Cultural Studies.

BACHELOR OF ARTS WITH A MAJOR IN SOCIOLOGY

Semester Hours

Core Curriculum Requirements	45
(page 34) 51*	
Computer Literacy Requirement—determined by the social sciences department	2-3
Foreign Language (two courses in one language)	10
Sociology Requirements	30
Soc 110 Introduction to Sociology	3
Soc 210 Social Problems**	3
Soc 311 Social Stratification**	3
Soc 342 Comparative Cultures**	3
Soc 421 Sociological Theory**	3
Soc 432 Sociological Research Methods**	3
Soc Electives (3 hrs. must be upper division)	12
Psy 311 Applied Statistics**	
OR	
Math 310 Elementary Statistics**	3
Supporting Area (approved by Sociology advisor)***	15
Electives	22-23
	129****

*Required sociology course 110, and Soc 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***A minor is highly recommended.

****Must include at least 40 upper division (300—400 level) hours.

BACHELOR OF SCIENCE WITH A MAJOR IN SOCIOLOGY

Semester Hours

Core Curriculum Requirements	45
(page 34) 51*	
Sociology Requirements	36
Soc 110 Introduction to Sociology	3
Soc 155 Introduction to Anthropology	3
Soc 311 Social Stratification**	3
Soc 362 Deviant Behavior**	3
Soc 421 Sociological Theory**	3
Soc 432 Social Research Methods**	3
Soc Electives (Emphasis in upper division)	18
Supporting Requirements	12
Comp 105 Intro to Microcomputer Use	3
Soc 300 Computer Applications for the Soc Sci	3
Psy 320 Applied Statistics for the Behavioral and Natural Sciences**	
OR	
Math 310 Elementary Statistics**	3
Geog Elective	3
Electives	35
	128***

*Required sociology course 110, and Soc 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***Must include at least 40 upper division (300—400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

Sociology Emphasis

Plan B Single Teaching Field

Semester Hours

Core Curriculum Requirements	33
(page 34) 51*	
Sociology Requirements	21
Soc 110 Introduction to Sociology	3
Soc 221 Marriage and Family	3
Soc 210 Social Problems**	3
Soc 342 Comparative Cultures**	3
Soc Electives (6 hours upper division)**	9
Supporting Requirements	36
Hist 110 U. S. History 1492-1877	3
Hist 120 U. S. History 1877-Present	
OR	

Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization To 1660	3
Hist 140 Western Civilization From 1660	3
Hist Upper Division U. S. Electives** (not 320)	6
Hist Upper Division European or Oriental Elective**	3
Geog 211 Regions and Nations	3
Geog Upper Division Elective	3
PSc 120 Gov't: U.S., State & Local	3
PSc Upper Division Elective**	3
Econ 180 American Economic System	3

Education Certification Requirements
(page 114) **37**
Elective **1**

*Required courses in history, political science, sociology, and economics satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

MINOR IN SOCIOLOGY

	Semester	Hours
Soc 110 Introduction to Sociology	3	
Soc Electives*	6	
Soc Electives—Upper Division*	12	
	21	

*Select with prior approval of a sociology advisor. See prerequisites where applicable.

MINOR IN SOCIOLOGY WITH EMPHASIS IN SOCIAL WORK

	Semester	Hours
Soc 110 Introduction to Sociology	3	
Soc 221 Marriage and Family	3	
Soc 210 Social Problems*	3	
Soc 306 Sociology of Aging*	3	
Soc 331 Introduction to Social Work I*	3	
Soc 332 Introduction to Social Work II**	3	
Soc 496 Internship**	3	
	21	

*See Prerequisites

**Admission dependent on departmental committee approval.

Suggested Order of Study

BACHELOR OF ARTS Major Code 2208 Sociology Major

Freshman Year

1st Semester	Hours
Course	3
Soc 110* Intro to Sociology	3
CORE [Eng 101 Composition]	3
CORE [Hist 110 U.S. 1492-1877]	3
CORE [Humanities and Fine Arts]	3
Elective	3
Psy 120 College Orientation	1
	16

2nd Semester

Course	Hours
Soc Elective	3
CORE [Eng 102 Composition]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Econ 180 American Economic System]	3
CORE [Bio 101 General Biology]	4
	16

Sophomore Year

1st Semester	Hours
Course	3
Soc 210 Social Problems**	5
Foreign Language	3
CORE [Humanities and Fine Arts]	3
CORE [Math 110 Intro to College Math]	3
CORE [Comm 100 Oral Communication]	3
	17

2nd Semester

Course	Hours
Soc Elective	3
Foreign Language	5
CORE [Phys 100 Fund of Physical Science]	5
CORE [Hist 120 U.S. History 1877-present]	3
OR	
CORE [Hist 320 U.S. History 1877-Present]	3
	16

Junior Year

1st Semester	Hours
Course	3
Soc 311 Social Stratification**	3
Soc 342* Comparative Cultures**	3
CORE [Eng Literature]	3
Psy 320 Applied Statistics** (Psy 311 or Math 310)	3
	1
CORE [HPER 101 Activities]	2
CORE [HPER 103 Lifetime Wellness]	2
	15

2nd Semester

Course	Hours
Supporting Area [A minor is suggested]	5
Comp 105 [Computing I]	3
Electives	8
	16

Senior Year

1st Semester	Hours
Course	3
Soc 421 Sociological Theory**	3
Soc [Upper Division Elective]	3
Supporting Area [A minor is suggested]	4
Soc Electives	3
Elective	3
	16

2nd Semester

Course	Hours
Soc 432 Research Methods**	3
Supporting Area [A minor is suggested]	6
Electives	7
	16

*Also meets a Core Curriculum requirement.

**Prerequisites

[] Department Recommendation
The student is to select a supporting area in consultation with a sociology advisor.

BACHELOR OF SCIENCE

Major Code 2220
Sociology Major

Freshman Year

1st Semester	Hours
Course	3
Soc 110* Intro to Sociology	3
CORE [Eng 101 Composition]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [Econ 180 American Economic System]	3
Elective	3
Psy 120 College Orientation	1
	16

2nd Semester

Course	Hours
Soc 155 Anthropology	3
CORE [Eng 102 Composition]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Comm 100 Oral Communication]	3
CORE [Phys 100 Fundamentals of Physical Science]	5
	17

Sophomore Year

1st Semester	Hours
Course	3
Soc Elective with approval of advisor	3
CORE [Math 131 Finite Math]	3
CORE [Eng Literature]	3
Geog Elective**	3
CORE [Bio 101 General Biology]	4
	16

2nd Semester

Course	Hours
Soc Elective	3
CORE [Humanities and Fine Arts]	3

School of Arts and Sciences

Elective		3
CORE	[HPER 103 Lifetime Wellness]	2
Elective	[A minor is suggested]	6
		17

Junior Year

1st Semester		Hours
Course		
Soc 311	Social Stratification***	3
CORE	[Soc 342 Comparative Cultures]	3
Comp 105	Computing I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 U.S. History 1877-Present]	
OR		
CORE	[Hist 320 U.S. History 1877-Present]	3
CORE	[HPER 101 Activities]	1
		16

2nd Semester

Course		Hours
Soc 362	Deviant Behavior***	3
Soc	Elective	3
Electives	[A minor is suggested]	7
Psy 320	Applied Statistics or Math 310***	3
		16

Senior Year

1st Semester		Hours
Course		
Soc 421	Sociological Theory***	3
Soc	Electives	6
Elective	[A minor is suggested]	6
		15
2nd Semester		Hours
Course		
Soc 432	Sociological Research Methods***	3
Soc 300	Computer Applications in the Social Sciences***	3
Electives	[A minor is suggested]	9
		15

*Also meets a Core Curriculum requirement.

**Select from Geography 211, 311, or 322.

***Prerequisites

[] Department Recommendation

The student is to select a minor in consultation with a sociology advisor.

For additional information contact:

Dr. Conrad Gubera

Office: 201 Mansion

Phone: 625-9653

Social Sciences

FACULTY

Renner - Head, Conboy, Cubera, Holman, Laas, Markman, Miller, Renner, St. Clair, Smith, Tate, Teverow, Yates, Youst

Within the social sciences are the disciplines of geography, history, paralegal studies, political science, and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment, and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health, and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social sciences faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences. Two general social sciences minors are also available: a social sciences minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

MINOR IN SOCIAL SCIENCES

	Semester Hours
Hist 110 U.S. History	3
Hist 120 U.S. History	
OR	
Hist 320 U.S. History	3
PSc 120 Gov't: U.S., State, & Local	3
Geog Elective	3
Soc Elective (100—200 level)	3
Select three (3) Social Sciences courses	
at the 300—400 level (other than Hist 320)	9

Nine hours of these requirements apply to the Core Curriculum.

MINOR IN SOCIAL STUDIES FOR SECONDARY EDUCATION

This minor meets social studies requirements for certifying secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty advisor.

	Semester Hours
Hist 110 U.S. History	3
Hist 120 U.S. History	
OR	
Hist 320 U.S. History	3
PSc 120 Gov't: U.S., State, & Local	3
Additional hours from the following:	15
Hist 130 or Hist 140 Western Civilization	3
Econ 180 American Economic System	3
Geog 211 Regions and Nations	3
Hist Upper Division U.S. Elective (not 320)	3
Hist Upper Division European or Oriental Elective	3
	24

Programs and Degree Offerings:

See Geography (page 58); History, (page 59); Paralegal Studies, (page 67); Political Science, (page 70); and Sociology, (page 72) for specific degree requirements, minors, A.A. paralegal program, and suggested orders of study.

Theatre

FACULTY

Fields - Head, Claussen, D. Hunt

Specialized theatre training provides, but not exclusively, career opportunities in:

Theatre Performance
Television Production/Performance
Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Recreational Directorship
Technical Theatre
Personnel Management
Government Service

Factors Unique to Theatre Department:

1. hands-on experience for students in acting, house and stage management, directing, and technical design-execution;
2. a children's theatre play program per-

forming for over 12,000 people annually from the four state area;
 3. play participation open to all Southern students, faculty, and staff;
 4. theatre faculty members who have professional experience in their teaching specialties;
 5. a modern, well equipped mainstage theatre as well as a smaller Barn studio theatre available for productions;
 6. two theatre organizations—College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (Plan B). A minor in theatre is also available.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty advisor at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 Theatre Appreciation.

BACHELOR OF ARTS WITH A MAJOR IN THEATRE

Semester Hours

Core Curriculum Requirements (page 34) 51*	42
Computer Literacy Requirement Comp 105, or above	3
Foreign Language (two courses in one language)	10
Theatre Requirements	46
Th 121, 122, 221, 222 Theatre Laboratory (Select two)	4
Th 142 Theatre Technology	3
Th 231 Speech for Stage	3
Th 232 Costume Technology	2
Th 233 Stage Make-up	1
Th 241 Acting I	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume & Design	3

Th 372 Directing II	
OR	
Th 320 Lighting Design	3
Th 422 Acting III** OR	
OR	
Th 431 Creative Dramatics	3
Th 441 Stage Design	3
Th Electives	6***
Supporting Requirements	9
Art 110 Art Appreciation	3
Mus 110 Music Appreciation	3
Hist 130 OR 140 Western Civ.	3
Electives	18
	128****

*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

**See Prerequisites

***A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 of the Core Curriculum.

****Three writing competency (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN THEATRE/SPEECH COMMUNICATIONS

Plan B

Single Teaching Field

Semester Hours

Core Curriculum Requirements (page 34) 51*	53
Computer Literacy Requirements—Educ 401	2
Theatre Requirements	17
Th 121 or 122 or 221 or 222 Theatre Laboratory	2
Th 142 Theatre Tech	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (W.C.)	
OR	
Th 332 History of Theatre	3
Th 351 Directing I**	3
Communication Requirements	12
Comm 101 Intro to Human Comm	3
Comm 215 Interpersonal Comm**	3
Comm 304 Small Group Comm	3

Comm 315 Argumentation and Debate**	3
Theatre or Speech Communication Electives***	11
Education Certification Requirements**** (page 114)	30
Electives	3
	128

* Education majors must take Psy 110 (5 hr. course) which also satisfies the Core Curriculum requirement of Area 3C, but adds 2 semester hours to the 51.

** See Prerequisites

*** Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre.

**** In addition to Psy 110 and Education 401.

MINOR IN THEATRE

Semester Hours

Th 121, 122, 221, 222 Theatre Laboratory (Select two)	4
Th 110 Theatre Appreciation	3
Choose a total of 11 hours from the following list of classes:	11*
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 233 Stage Make-Up	1
Th 231 Speech for Stage	3
Th 251 Audition Techniques for the Actor	1
Th 232 Costume Technology	2
Th 311 Stage Management	2
Th 241 Acting I	3
Th 298 Explorations in Theatre (When Offered)	3
Th 320 Stage Lighting**	3
Th 331 Theatre History (W)	3
Th 332 Theatre History	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume & Design	3
Th 372 Directing II**	3
Th 422 Acting III**	3
Th 441 Stage Design	3
	18

* All courses must be selected with advisor approval. Six hours must be upper division.

** See Prerequisites

School of Arts and Sciences

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1007
Theatre Major

Freshman Year

1st Semester

Course	Hours
Th 121 Theatre Lab	2
Th 231 Speech For Stage	3
Th 233 Stage Make-up	1
CORE [Eng 101 Composition]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Comm 100 Oral Communications]	3
Psy 120 College Orientation	1
	15

2nd Semester

Th 142 Theatre Tech	3
Th 241 Acting I	3
CORE [Hist 140 Western Civilization]	3
CORE [Eng 102 Composition]	3
CORE [Math 110 or above]	3
	15

Sophomore Year

1st Semester

Th 341 Acting II*	3
Th 221 Theatre Lab	2
Comp 105 or above Computer Literacy Requirement	3
CORE [Area 2-A Elective]	3
CORE [English Literature Choice]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [HPER 101 Activity]	1
	18

2nd Semester

Th 422 Acting III* @	3
Th 232 Costume Tech.	2
Th Elective	3
Art Elective (support req)	3
CORE [Area 2-C Elective]	3
CORE [Psy 100 or Soc 110]	3
	17

Junior Year

1st Semester

Th 212 Oral Interpretation	3
Th 441 Stage Design*	3
CORE [Bio 101 or 110]	4
CORE [Foreign Language]	5
	15

2nd Semester

Th 362 Stage Costume Design	3
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Phys 100 Physical Science]	5
CORE [Foreign Language]	5
	16

Senior Year

1st Semester

Th 320 Lighting Design@	3
Th 331 History of Theatre	3
Th 351 Directing I	3
CORE [Econ 180 American Economic System]	3
Elective [Eng or Th]	3
	15

2nd Semester

Th 332 History of Theatre	3
Th 372 Directing II* @	3
Th Electives	4
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Elective [Eng or Th]	3
	16

[] Department Recommendation

*See prerequisites

@May be substituted for approved class in Tech or acting area

Supporting Electives:

Accounting, Art, Business, Communications, English, Music, Computer Science

For additional information contact:

Director of Theatre

Office: 243 Taylor Performing Arts Center

Phone: 625-9393

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844

Speech and Theatre

Theatre Emphasis

Plan B Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Th 121 Theatre Lab	2
CORE [Eng 101 Composition]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Comm 100 Oral Communications]	3
Psy 120 College Orientation	1
CORE [Econ 180 American Economic System]	3
Comm 101 Intro to Human Communications	3
	17

2nd Semester

Th 142 Theatre Tech	3
CORE [Area 2-A Elective]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [Eng 102 Composition]	3
CORE [HPER 101 Activity]	1
CORE [Math 110 or above]	3
	15

Sophomore Year

1st Semester

Comm 304 Small Group Communications	3
Comm 215 Interpersonal Communications	3
CORE [Area 2-B Elective]	3
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Area 2-C Elective]	3
	15

2nd Semester

Th Elective	3
CORE [Psy 110 Human Growth & Development]	5
CORE [PSc 120 Gov't: U.S., State, & Local]	3
Educ 370 Educational Media	3
Educ 310 Educational Psychology	3
	17

Junior Year

1st Semester

Th 212 Oral Interpretation	3
CORE [GB 310 or Comm 305]	3
CORE [Phys 100 Physical Science]	5
Educ 302 Exceptional Child	2
Educ 300 Clinical Experience	2
	15

2nd Semester

Th 241 Acting I	3
Th Electives*	5
CORE [Bio 101 or 110]	4
Educ 401 Computer Literacy Course	2
	14

Senior Year

1st Semester

Th 331 History of Theatre	3
Th 351 Directing I	3
Comm 315 Argumentation & Debate	3
Educ 330 Structures of Teaching	2
Educ 331 Micro Teaching	2
Educ 422 Reading-Secondary School	2
	15

2nd Semester

Educ 342 Teaching Methods	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues	2
Elective Educ 412, 420, 423, or Psy 412	2
Educ 462 Student Teaching	8
	16

[] Department Recommendation

*See prerequisites

For additional information contact:

Dr. Jay E. Fields

Office: 243 Taylor Performing Arts Center

Phone: 625-9393

COURSE DESCRIPTIONS

ART (Art)

Art Composition (F and/or S)

50.0799-100

3 hrs. cr.

Introduction to studio projects using fundamental techniques, media, and theories.

Art Appreciation (F and/or S)

50.0703-110

3 hrs. cr.

A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research, and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are

emphasized. Specially recommended toward meeting Core Curriculum requirements for non-art majors.

Beginning Ceramics (F and/or S)

50.0202-120 3 hrs. cr.
Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hrs. per week. Lab fee required.

Beginning Drawing (F and/or S)

50.0705-130 3 hrs. cr.
The development of perceptual drawing skills through the study of line, value, perspective, composition, and reduction of form using various media.

Introduction to Design (F and/or S)

50.0401-132 3 hrs. cr.
Foundation studio projects using art principles and elements of structure. Primarily a two-dimensional design course. Six studio hrs. per week.

Arts & Crafts (F and/or S)

50.0299-200 3 hrs. cr.
Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts. Required for Special Education.

Beginning Jewelry Design/Metalsmithing (F and/or S)

50.0206-205 3 hrs. cr.
Creative exploration of design fabrications, casting, and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and/or Art 132, or approval of instructor.

Beginning Sculpture (F and/or S)

50.0709-211 3 hrs. cr.
Exploration of forming methods involving wood, clay, plaster, and mixed media with the emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 132 and/or Art 230, or approval of instructor.

Art Education (F and/or S)

50.1302-220 3 hrs. cr.
Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors.

Basic Form (F and/or S)

50.0401-230 3 hrs. cr.
Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100.

Beginning Painting (F and/or S)

50.0708-232 3 hrs. cr.
Procedures, techniques, and basic fundamentals of painting with oil, acrylic, and mixed media.

Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and Art 130.

Advanced Drawing (F and/or S)

50.0705-300 3 hrs. cr.
Self exploration of various drawing elements including composition, structure, and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 100 and Art 130 or approval of instructor.

Art History, Prehistoric Through Gothic

50.0703-301 3 hrs. cr.
Survey of the visual arts from the Ancient World to the Gothic Age in Europe.

Art History, Renaissance Through Baroque

50.0703-302 3 hrs. cr.
Comparative study of the visual arts of Southern and Northern Europe from the early Renaissance through the Baroque and Rococo periods.

Art History, 19th Century

50.0703-303 3 hrs. cr.
Survey of Western Art in Europe and the United States from Neo-Classicism and Romanticism to Post-Impressionism.

Art History, 20th Century

50.0703-304 3 hrs. cr.
Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis will be placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

Seminar (F and/or S)

50.0799-305 3 hrs. cr.
Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.

Transparent Watercolor (F and/or S)

50.0708-310 3 hrs. cr.
Techniques and aesthetic processes of watercolor painting using landscape, figures, and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 or permission of instructor.

Beginning Printmaking (F and/or S)

50.0799-312 3 hrs. cr.
Procedures, techniques, and fundamentals of the intaglio process; etching, drypoint, aquatint, softground, and mixed media including color etching. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required.

Advanced Sculpture (F and/or S)

50.0709-321 3 hrs. cr.
An extension of Beginning Sculpture with an introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.

Advanced Sculpture (F and/or S)

50.0709-322 3 hrs. cr.
Continuation of Art 321. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs.

Graphic Communications I (F)

50.0402-325 3 hrs. cr.
Introduction to commercial art with an emphasis on the recognition, duplication, function, and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout, and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100, Art 130 and Art 132.

Advanced Jewelry Design/Metalsmithing (F and/or S)

50.0206-330 3 hrs. cr.
Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.

Graphic Communications II (S)

50.0402-350 3 hrs. cr.
Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.

Advanced Painting (F and/or S)

50.0708-401 3 hrs. cr.
Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

Advanced Ceramics (F and/or S)

50.0202-407 3 hrs. cr.
Advanced methods, techniques, and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.

Special Projects in Art I (F and/or S)

50.0799-420 3 hrs. cr.
Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project ap-

School of Arts and Sciences

proved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor. Lab fee may be required. May be repeated for a total of 6 credit hrs.

Life Drawing (F and/or S)

50.0708-421 3 hrs. cr.
Drawing and/or painting the human figure with emphasis on anatomy, structure, and form. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232.

Graphic Communications III (F)

50.0402-425 3 hrs. cr.
Continued study of Graphic Communications II with an emphasis on the design and preparation of three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.

Advanced Printmaking (F and/or S)

50.0799-430 3 hrs. cr.
Advanced Intaglio techniques and color printing. Advanced studio methods for color registration, transfer and drawing, drypoint, mezzotint, etching, engraving, and mixed media. Emphasis on design, drawing, concept, technical proficiency, and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.

Special Projects in Art II (F and/or S)

50.0799-440 3 hrs. cr.
Same as Art 420. May be repeated for a total 6 credit hrs. Lab fee may be required.

Graphic Communications IV (S)

50.0403-450 3 hrs. cr.
Study and techniques of illustration for printing and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

Graphic Communications Internship (Demand)

50.0402-475 1-8 hrs. cr.
An off campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of Graphic Communications, junior standing or above, and approval of a departmental committee.

Senior Exhibit (F)

50.0799-490 2 hrs. cr.
Offered during the fall semester each academic year to prepare senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hr. of lecture, two hrs. of studio per week. Prerequisite: Senior standing and permission of Junior Review Committee.

BIOLOGY (BIO)

General Biology (F, S)

26.0101-101 4 hrs. cr.
A one semester general treatment of the unifying principles of living things including cell structure and function, metabolism, genetics, evolution, and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2 hr. lab per week. Fulfills the Core Curriculum requirement in Area 3, section A for most majors.

Man and Environment (F, S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of biology including pollution, land use, population, energy, and organismic responses to these problems. Cellular, systemic, and genetic mechanisms are included. Three lectures, one 2 hr. lab per week. Fulfills the Core Curriculum requirement in Area 3, section A for Environmental Health Technology majors.

Botanical Survey (F, S)

26.0301-112 3 hrs. cr.
The morphology, physiology, and classification of plants are studied with an emphasis upon the diversity of the plant world. Two lectures, one 2 hr. lab per week. Prerequisite: Bio 101.

General Zoology (F, S)

26.0701-121 4 hrs. cr.
Introductory study of the basic principles of human cytology, metabolism, and genetics. Emphasis upon the anatomy and physiology of man in preparation for Bio 306. Three lectures, one 2 hr. lab per week. Fulfills the Core Curriculum requirement for physical education, and certain health related technology majors.

Zoological Survey (F, S)

26.0701-122 3 hrs. cr.
Morphology, physiology, and classification of animals with emphasis on the diversity of the animal world. Two lectures, one 2 hr. lab per week. Prerequisite: Bio 101.

Animal Science

26.0101-131 5 hrs. cr.
Fundamental principles of animal science at an introductory level. Includes kinds of livestock, related anatomy and physiology, genetics, and nutrition. Discussion of livestock contributions to human use and needs. Three lectures, two 2

hr. labs per week. (Does not count toward a biology major.)

General Physiology (F, S)

26.0401-210 4 hrs. cr.
A detailed study of function at the cellular and molecular levels and physiological characteristics of both plant and animal cells. Three lectures, one 2 hr. lab per week. Prerequisites: Bio 101, 112, 122, Chem 102.

Microbiology (S)

26.0501-211 5 hrs. cr.
Structure and function of microorganisms with emphasis on classification, the role of microorganisms in the environment, and the use of microorganisms in modern biological research. Three lectures, two 2 hr. labs per week. Credit toward the biology major may include Bio 211 or 231 but not both. Prerequisite: Bio 101, Bio 110, or Bio 121.

Fundamentals of Medical Microbiology (F)

26.0501-231 5 hrs. cr.
For students interested in the paramedical professions. Topics include the general principles of microbiology, immunology, and the identification of microorganisms. Three lectures, two 2 hr. labs per week. Prerequisite: 1 course of a biological science. Credit toward the biology major may include either Bio 211 or 231 but not both. Prerequisite: Bio 101, Bio 110, or Bio 121.

Radiation Biology (S)

26.0610-240 3 hrs. cr.
A survey of various types of radiation affecting man, the uses of radiation, and methods for monitoring radiation levels. Special emphasis will be placed on the types of physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Bio 306 and 5 hrs. of chemistry or acceptance into the School of Radiologic Technology.

Animal Nutrition

26.0609-261 3 hrs. cr.
A study of the fundamental principles of animal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Bio 131, Chem 101 and 102, Chem 301 or permission of instructor. (Does not count toward any biology major.)

Principles of Plant Propagation

26.0101-271 3 hrs. cr.
A comprehensive study of the principles of plant propagation emphasizing three specific areas. First, a knowledge of the physiology of plant growth and the anatomy of plants as these topics relate to propagation. The second area is the knowledge of the different types of plants commonly propagated and the methods by which this is achieved. The third and most important area is a knowledge of the mechanical manipulations and technical skills that take a

certain amount of practice and experience to master such as budding, grafting, and making cuttings. Two lectures, one 2 hr. lab per week. (Does not count toward a biology major.)

Research Methods in Biology

26.0101-290 2 hrs. cr.
Development of investigational and technical skills required in biology and related fields. Benefits those who expect to collect and analyze data in independent study or on the job. Students learn to effectively use the library and to prepare proposals and reports. The course also familiarizes students with field and laboratory techniques, research design, microcomputer applications, and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology.

Selected Topics in Biology

26.0101-298 1-8 hrs. cr.
Specific topic or topics not normally included in another course. Prerequisite: Bio 101, 112, and 122.

Genetics (F, S)

26.0703-305 4 hrs. cr.
Introduction to principles of heredity, gene structure, expression, and regulation. Emphasis will be placed on cytological and molecular approaches to gene action, linkage, recombination, and other genetic mechanisms. Lab exercises will illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 101. Recommended courses: Bio 306, 211 or 231, Chem 101.

Human Physiology and Anatomy (F, S)

26.0601-306 5 hrs. cr.
Structure and function of the human body will be used to study both the arrangement of organs and coordination of body systems. Emphasis is on physiological processes and their anatomical basis. Three lectures, two 2 hr. labs per week. Prerequisite: Bio. 101 or 121.

Pathophysiology (F)

26.0704-308 4 hrs. cr.
Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures, one 3 hr. lab per week. Prerequisites: Bio 306 and Bio 211 or 231.

Field Biology

26.0603-310 2 hrs. cr.
Engenders appreciation and understanding of the local flora and fauna, and provides pertinent information for preparation and preservation of specimens for laboratory use. One lecture, one 2 hr. lab per week. Prerequisite: Bio 101 or permission of instructor. (Does not count toward a biology major.)

Environmental Biology (F)

26.0603-312 4 hrs. cr.
Environmental factors and their interactions with living things. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2 hr. lab per week. Prerequisite: Phys. 100, Bio 101, Math 110, or permission of instructor.

Economic Botany (F)

26.0301-316 3 hrs. cr.
Economic uses of plants, and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural, and crop selection viewpoint as well as from a view of pharmacological, textile usage, etc. Three lectures a week. Prerequisite: Bio 101 or equivalent.

Cell Biology (S, Odd)

26.0401-318 4 hrs. cr.
Detailed cell structure and function with emphasis on both cytological anatomy and physiology. Three lectures, one 2 hr. lab per week. Prerequisites: Bio 112, 122, 210, 305, and Chem 301 or consent of instructor.

Taxonomy of Flowering Plants (S)

26.0301-322 4 hrs. cr.
Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2 hr. labs per week. Prerequisites: Bio 101 and 112.

Comparative Vertebrate Anatomy (F)

26.0704-331 5 hrs. cr.
Fundamental course designed to enhance understanding and appreciation of the structure and adaptations of vertebrates, including humans. Emphasis is on evolution and the relationship between structure and function includes certain non-traditional topics, such as quantitative studies of allometry, sexual dimorphism, and biomechanics. Two lectures, two 3 hr. labs per week. Prerequisites: Bio 101 or 121, and 122.

Introduction to Entomology (F, Even)

26.0702-332 3 hrs. cr.
Collecting methods, taxonomy, life history, morphology, and evolution of insects are emphasized. Prerequisites: Bio 101 and 122. Two lectures, one 3 hr. lab per week.

Microtechnique (Demand)

26.0501-342 2 hrs. cr.
Principles of preserving, fixing, staining, and mounting biological materials. Prerequisites: Bio 101 and 121. Two 2 hr. labs per week.

Ichthyology (S, Even)

26.0701-344 3 hrs. cr.
Investigates the fishes of North America with special emphasis on local species. Natural his-

tory, morphology, function of fishes in relation to man. Prerequisite: Bio 122 or equivalent.

Biomes (S)

26.0603-352 2 hrs. cr.
An in-depth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 101, or 121, 122 and permission of instructor.

Parasitology (F, Even)

26.0601-361 4 hrs. cr.
A systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect man and domestic animals. Three lectures, one 3 hr. lab per week. Prerequisites: Bio 101, 122.

Virology (F, Odd)

26.0501-362 3 hrs. cr.
Structure and life cycles of bacterial, animal, and plant viruses, their significance in disease (including cancer), and the use of viruses in modern biological research. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

Environmental Health (S)

26.0704-370 4 hrs. cr.
Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2 hr. lab per week. Prerequisites: Bio 211 or 231, junior standing in science or permission of instructor.

Plant Physiology

26.0307-371 4 hrs. cr.
Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development, and factors producing physiological stress in the plant world. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 210.

Ornithology (S, Odd)

26.0701-381 3 hrs. cr.
Study of birds, including their anatomy, physiology, ecology, behavior, and taxonomy. Laboratory portion emphasizes the identification of local forms and exposes the student to research in ornithology and the techniques used in the management of bird populations. Early morning and weekend field trips are required. Prerequisites: Bio 101 or 121, 122, 290, or permission of instructor. The equivalent of 2 lectures, one 2 hr. lab per week.

School of Arts and Sciences

General Ecology (S)

26.0603-402 4 hrs. cr.
A study of the plant and animal communities and their interaction within the environment. Emphasis on the flora and fauna of Southwest Missouri and soils, climate, and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3 hr. lab per week. Prerequisites: Bio 101, 112, and 322, or consent of instructor.

Invertebrate Zoology (F, Odd)

26.0706-422 5 hrs. cr.
Classification, morphology, physiology, development, and evolution of the classes of invertebrate animals. Three lectures, two 2 hr. labs per week. Prerequisite: Bio 122.

Animal Physiology (S, Odd)

26.0706-431 5 hrs. cr.
Comparative and ecological approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2 hr. labs per week. Prerequisite: 10 hrs. of biology. Bio 210, 331, and Chem 300 or 301 recommended.

Histology (S, Even)

26.0606-433 4 hrs. cr.
Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3 hr. lab per week. Prerequisite: 10 hrs. of zoology or consent of instructor.

Plant Pathology

26.0305-440 4 hrs. cr.
Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease, and examples of management systems. Three lectures, one 2 hr. lab per week. Prerequisites: Bio 101 and 112.

Internship in Biology

26.9999-450 1-8 hrs. cr.
In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs.

Immunology (S, Even)

26.0704-456 3 hrs. cr.
Cellular and molecular basis of the immune response in vertebrates, will be studied including the role of the immune systems in disease prevention, hypersensitivity, transplantation immunity, and regulation of the immune response. Recommended for students who are

interested in careers in cellular and molecular biology and medicine. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

Embryology (S, Odd)

26.0604-462 5 hrs. cr.
Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2 hr. labs per week. Prerequisites: Bio 122 and/or 331.

Aquatic Biology

26.0101-481 4 hrs. cr.
Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2 hr. lab per week. Prerequisites: Bio 122 and/or Bio 331.

Seminar (F, S)

26.9999-490 1 hr. cr.
Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Faculty members, as well as students, will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science.

Seminar in Biology (F, S)

26.9999-498 1-3 hrs. cr.
For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology, or permission of instructor.

Problems in Biology (F, S)

26.9999-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head, and school dean. Prerequisites: A minimum GPA of 3.0 in 20 hrs. of biology. Biology majors may take Bio 131, 261, 271 or 310, but should be advised that these courses will not count toward semester hour total for any of the departmental degrees.

CHEMISTRY (Chem)

Introductory Chemistry (F, S)

40.0501-100 5 hrs. cr.
Basic principles and practical applications of inorganic, organic, and biochemistry which satisfies the needs of students in certain health-related programs. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

General Chemistry I (F, S)

40.0501-101 5 hrs. cr.
Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisite or corequisite: Math 140 or higher level math course.

General Chemistry II (F, S)

40.0501-102 5 hrs. cr.
A continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisites: Chem. 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course.

Analytical Chemistry I (F)

40.0502-201 5 hrs. cr.
The standard first course in quantitative chemical analysis. The lecture and laboratory include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3 hr. laboratories per week. Prerequisite: Chem 102.

Selected Topics in Chemistry (F, S)

40.0599-298 1-3 hrs. cr.
Special topics in chemistry not normally included in other courses. Prerequisite: Chem. 201 or permission of instructor.

Intro to Modern Organic Chemistry (S)

40.0504-300 5 hrs. cr.
Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, and reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry I (F)

40.0504-301 5 hrs. cr.
Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. A brief introduction to organic spectroscopy included. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry II (S)

40.0504-302 5 hrs. cr.
A continuation of Chem 301. Organic spectroscopy is discussed in detail. The func-

tional group approach is continued: Aryl halides, phenols, aldehydes and ketones, carboxylic acids, amines, and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition, and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and laboratory. Three lectures, one 3 hr. laboratory, one recitation session per week. Prerequisite: Chem 301.

Biochemistry (F)

26.0201-351 4 hrs. cr.
Fundamental concepts of the chemistry of lipids, carbohydrates, and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3 hr. laboratory per week. Prerequisite: Chem. 300 or 302.

Physical Chemistry I (F, Odd)

40.0506-401 4 hrs. cr.
Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. The ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures, one 3 hr. laboratory per week. Prerequisites: Math 250 and Phys 250.

Physical Chemistry II (S, Even)

40.0506-402 4 hrs. cr.
A continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases, and chemical kinetics. Three lectures, one 3 hr. laboratory per week. Prerequisite: Chem. 401.

Analytical Chemistry II (S)

40.0502-421 5 hrs. cr.
A continuation of Chemistry 201. A study of the overall analytical process. The lecture and laboratory deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3 hr. laboratories per week. Prerequisite: Chem. 201.

Advanced Inorganic Chemistry (S, Even)

40.0503-422 4 hrs. cr.
Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3 hr. laboratory per week. Prerequisites: Chem 102 and Math 250.

Organic Qualitative Analysis (S, Odd)

40.0509-472 4 hrs. cr.
Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3 hr. laboratories per week. Prerequisite: Chem. 302.

Seminar (F, S)

40.0599-498 1-3 hrs. cr.
For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Independent Study (F, S)

40.0599-499 1-3 hrs. cr.
Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced laboratory experimentation. Open to students having (1) minimum of 15 hrs. of chemistry, (2) the ability to undertake independent work, and (3) permission of instructor. Registration must be approved by advisor, department head, and school dean.

COMMUNICATIONS (Comm)

Oral Communication (F, S)

09.0101-100 3 hrs. cr.
Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language, and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

Introduction to Human Communication (F)

09.0101-101 3 hrs. cr.
An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural, and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

Newsriting (F, S)

09.0401-111 3 hrs. cr.
Development of techniques in reporting and writing for a newspaper. Work on the college newspaper, *The Chart*, is required.

Forensics Workshop (F, S)

23.1001-121 (Per Sem.) 1 hr. cr.
A practicum in forensics, including research, organization, and presentation of the current

debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

Introduction to Broadcasting (S)

09.0701-130 3 hrs. cr.
The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

Voice and Diction (F, S)

23.1001-131 3 hrs. cr.
Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation, and vocal expressiveness.

Radio Production (F, S)

09.0701-200 3 hrs. cr.
Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Work on air at KXMS. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week. Prerequisites: Comm 130 and Comm 131.

Television Production (F, S)

09.0701-201 3 hrs. cr.
Intensive practice in preparation and production of television programs. Camera techniques, floor set-ups, and direction of crews and talent. Interviewing techniques. Development of varied "on-the-air" skills. Two hrs. lectures, 2 hrs. lab per week. Prerequisite: Comm 130.

Business and Professional Speech (F, S)

09.0101-203 3 hrs. cr.
A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion, and individual speaking formats are included.

Professional Interviewing (F, S)

09.0101-210 3 hrs. cr.
Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills, and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewee. Prerequisite: Comm 100.

Interpersonal Communication (F, S)

09.0101-215 3 hrs. cr.
Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading, and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

School of Arts and Sciences

Practicum in Communications (F, S)

09.0401-220 (Per Sem.) 1 hr. cr.
Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for *The Chart* or *Crossroads*, Comm 111; for KXMS, Comm 200; for TV, Comm 201.

Feature Writing (F)

09.0401-231 3 hrs. cr.
Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Copyediting (S)

09.0401-233 3 hrs. cr.
Principles of copy reading and editing, design of newspaper. Paste-up techniques. Students work in positions of major responsibility on the College newspaper, *The Chart*. Prerequisite: Comm 111.

Selected Topics in Communications (Demand)

09.0101-298 1-8 hrs. cr.
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Organizational Communication (F, Even)

23.1001-300 3 hrs. cr.
The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.

Broadcast and Cable Management (S, Even)

09.0701-301 3 hrs. cr.
Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement, and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

Photocommunications (Demand)

09.0401-302 3 hrs. cr.
Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Small Group Communication (F, Even)

09.0101-304 3 hrs. cr.
Small group context of interpersonal communication emphasizing group behavior and hu-

man relations. Specific units include group problem solving, decision making, and leadership style. Prerequisite: Comm 100.

Intercultural Communication (F, S)

09.0101-305 3 hrs. cr.
Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multi-cultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Persuasion (F, Odd)

09.0101-306 3 hrs. cr.
A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric, and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

Communication Law (S, Odd)

09.0401-310 3 hrs. cr.
Statutes, administrative regulations, and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising, and broadcasting. Rights, privileges, and obligations of the press.

Introduction to Public Relations (F, Odd)

09.0101-311 3 hrs. cr.
Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques. Prerequisite: Comm 111.

Scholastic Publications (Demand)

09.0401-312 3 hrs. cr.
Editorial and production practices of school newspapers and yearbooks. The role of the publications advisor; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.

Argumentation and Debate (F, Even)

23.1001-315 3 hrs. cr.
The theory of the modern forms of evidence, evaluations, arguments, methods of refutation, and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.

Advanced Television Production (S)

09.0701-320 3 hrs. cr.
Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.

Forensics Workshop (F, S)

23.1001-321 (Per Sem.) 1 hr. cr.
Advanced practicum in the area of forensics, including research, organization, and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.

Broadcast News Reporting (F)

09.0601-325 3 hrs. cr.
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production, and newscamp editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Advanced Communications Practicum (F, S)

09.0401-330 2 hrs. cr.
Intensive laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will work for a minimum of 10 hrs. per week in positions of major responsibilities. May be repeated for a maximum of six hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220.

Internship in Communications (F, S, Summer)

09.0101-345 1-8 hrs. cr.
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. For some specific internships available, application must be made during the first half of one semester for the following semester. These internships are highly competitive and are awarded only to exceptional students. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites.

Broadcast Programming (F)

09.0701-402 3 hrs. cr.
An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations, and superstations are compared and contrasted. Prerequisite: Comm 130.

Political and Social Communication (S, Even)

09.0101-411 3 hrs. cr.
Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in na-

tional and international affairs; includes lecture, reading, and discussion. Prerequisite: Comm 100, and junior or senior standing.

Mass Communications Theory (S)
09.0401-420 3 hrs. cr.
Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability, and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.

Professional Communication Skills (S, Odd)
09.0101-490 3 hrs. cr.
Writing, speech preparation, and the public presentation of ideas. Both written and oral presentations are required, and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100, Eng 102.

International Communication (S, Even)
09.0101-493 3 hrs. cr.
Comparative analysis of media systems throughout the world, international broadcasting, freedom of the press, media imperialism, and the New World Information Order.

Seminar in Speech Communication (Demand)
09.0101-498 3 hrs. cr.
For upper-division students. Topics to be announced each time the course is offered.

Seminar in Mass Communications (Demand)
09.0401-498 1-3 hrs. cr.
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing and at least 15 hrs. of communications courses. Juniors may enroll with permission of instructor.

Independent Study in Speech Communication
09.0101-499 1-3 hrs. cr.
An independent course structured by the advisor with approval of department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0 or approval of department head. Projects must be approved by advisor, department head, and school dean prior to enrollment.

Independent Study in Mass Communications
09.0401-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: A GPA of 3.0 in the major field and 15 hrs. of communications. Projects must be approved by advisor, department head, and school dean prior to enrollment.

ENGLISH (Eng)

Basic Composition
23.0401-080 3 hrs. cr.
For students whose placement scores indicate that they cannot successfully complete the normal sequence of Eng. 101-102 without special help and individual attention. Concentration on basic grammar, punctuation, usage, and the principles of effective writing, with a special focus on effective sentences and paragraphs. Students must complete this course with a passing grade before they will be permitted to enroll in English 101. This course is offered through the Learning Center.

Freshman Composition I
23.0401-101 3 hrs. cr.
Principles of effective writing based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)

Freshman Composition II
23.0401-102 3 hrs. cr.
Continued development of writing skills. Initiation, development, and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)

Technical Writing
23.0401-103 3 hrs. cr.
Second-semester composition course focused on the practical demands of on-the-job writing. Prerequisite: English 101, with a grade of "C" or better. Substitutes for English 102, except for majors in the School of Business or for the bachelor of science in education degree.

Advanced Freshman Composition
23.0401-111 3 hrs. cr.
For freshmen demonstrating exceptional proficiency on placement tests. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six-hr. composition requirement. However, students receiving a "D" in English 111 must take English 102.

Introduction to Literature
23.0101-150 3 hrs. cr.
An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama. (Meets Core Curriculum requirements.)

Introduction to Film Studies
23.0101-160 3 hrs. cr.
An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.

Creative Writing (S)
23.0501-216 3 hrs. cr.
Writing of prose, poetry, and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

Masterpieces of World Literature
23.0301-261 3 hrs. cr.
Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)

Masterpieces of World Literature
23.0301-262 3 hrs. cr.
Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)

English Literature
23.0801-271 3 hrs. cr.
Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)

English Literature
23.0801-272 3 hrs. cr.
Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)

American Literature
23.0701-281 3 hrs. cr.
A survey of American literature from its beginnings to the Civil War. (Meets Core Curriculum requirements.)

American Literature
23.0701-282 3 hrs. cr.
A survey of American literature from the Civil War to the present. (Meets Core Curriculum requirements.)

Explorations in Literature [Demand]
23.0101-298 3 hrs. cr.
Studies in a variety of literary subjects. Topic open.

Modern Grammar (F)
23.0101-301 3 hrs. cr.
Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications.

The Short Story
23.0101-305 3 hrs. cr.
An in-depth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)

Professional Writing (F)
23.0401-310 3 hrs. cr.
An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.

School of Arts and Sciences

Exposition (S)

23.0401-315 3 hrs. cr.
The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.

Composition for Teachers (F)

23.0401-319 3 hrs. cr.
For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.

Children's Literature (S)

23.0101-325 3 hrs. cr.
A reading, lecture, and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major.

Literature for Adolescents

23.0101-330 3 hrs. cr.
An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.

Women's Literature

23.0101-335 3 hrs. cr.
A study of the literary tradition of women authors writing in English.

Black American Literature

23.0701-340 3 hrs. cr.
Writings by Black Americans from the Colonial Period to the present.

The American Novel

23.0701-345 3 hrs. cr.
Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.

Recent American Fiction

23.0701-350 3 hrs. cr.
The major movements in American fiction since World War II.

Twentieth Century Drama

23.0101-360 3 hrs. cr.
World drama from Shaw to the present. Emphasis on American and British dramatists.

Twentieth Century Poetry

23.0101-370 3 hrs. cr.
British and American poetry from Yeats to the present.

The English Novel

23.0801-380 3 hrs. cr.
Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

Continental Novel

23.0301-385 3 hrs. cr.
Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky, and Kafka.

History of the English Language (S)

23.0801-400 3 hrs. cr.
The ancestors of English and the effect of other languages, peoples, and cultures upon the development of English. Phonology, morphology, syntax, and usage of the language throughout its history.

Medieval English Literature

23.0801-410 3 hrs. cr.
Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of Chaucer.

Renaissance Prose and Poetry

23.0801-415 3 hrs. cr.
English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, Milton.

English Drama to 1800

23.0801-420 3 hrs. cr.
English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, Congreve.

Restoration and Eighteenth Century English Literature

23.0801-425 3 hrs. cr.
The rise of Neoclassicism, the Enlightenment, and the decline of Neoclassicism in literature from 1660-1798, Dryden to Gray.

The Romantic Period

23.0801-430 3 hrs. cr.
English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

The Victorian Period

23.0801-435 3 hrs. cr.
English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.

Shakespeare (F)

23.0801-450 3 hrs. cr.
Selected comedies, histories, tragedies, romances, and poems.

American Literature: Major Figures

23.0701-460 3 hrs. cr.
An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

Literary Criticism

23.0101-480 3 hrs. cr.
Major schools of criticism and the major representatives of each school.

Seminar in Literature

23.0101-498 3 hrs. cr.
For advanced English majors or by permission of department head. Topic open.

Independent Study

23.0101-499 3 hrs. cr.
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by advisor, department head, and school dean.

Foreign Languages and Literatures

FRENCH (Fren)

Beginning French (F)

16.0901-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction.

Intermediate French (S)

16.0901-102 5 hrs. cr.
Spoken language, vocabulary building, pronunciation proficiency, and grammar essentials.

Readings in French Literature (F)

16.0901-201 3 hrs. cr.
Intermediate reading, discussion of literature in French, emphasis on vocabulary building, grammar review. Prerequisite: Fren 102 or equivalent.

Advanced Readings in French Literature (S)

16.0901-202 3 hrs. cr.
Representative works read and discussed in French. Short stories, a novel, and poetry. Prerequisite: Fren 201 or equivalent.

French Composition (Demand)

16.0901-301 3 hrs. cr.
Practice in writing French accompanied by a thorough study of grammar and syntax. Prerequisite: Fren 202 or equivalent.

Advanced French Composition (Demand)

16.0901-302 3 hrs. cr.
Practice in writing French compositions. Thorough study of grammar, syntax, and idiomatic expressions. Prerequisite: Fren 301.

Survey of French Literature (Demand)

16.0901-322 3 hrs. cr.
French literature of the eighteenth, nineteenth, and twentieth centuries. Prerequisite: Fren 321.

Independent Study (Demand)

16.0901-499 1-3 hrs. cr.
Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, advisor, department head, and dean in advance of enrollment.

GERMAN (Ger)

Beginning German (F)

16.0501-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction.

Intermediate German (S)

16.0501-102 5 hrs. cr.
Spoken language, vocabulary building, pronunciation proficiency, and grammar essentials.

Readings in German Literature (F)

16.0501-201 3 hrs. cr.
Intermediate reading, discussion of literature. Emphasis on vocabulary building, grammar review. Prerequisite: Ger 102 or equivalent.

Advanced Readings in German Literature (Demand)

16.0501-202 3 hrs. cr.
Reading and discussion of representative works in German with emphasis on conversation, syntax, and literary significance. Prerequisite: Ger 201 or equivalent.

Independent Study (Demand)

16.0501-499 1-3 hrs. cr.
Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, advisor, department head, and dean in advance of enrollment.

SPANISH (Span)

Beginning Spanish (F, S)

16.0905-101 5 hrs. cr.
A monolingual immersion method with emphasis on aural-oral exercise. The theory of Total Physical Response facilitates the "active-learner mode" of instruction and prescribes the natural order for language acquisition: listening comprehension; oral expression; reading; writing. High frequency patterns of usage and controlled exposition of grammar are the bases of proficiency at this level.

Intermediate Spanish (F, S)

16.0905-102 5 hrs. cr.
Continuation of 101 with instruction in contrast of past tenses, verbal aspect, time references, modals, oral composition, periodic discourse, inclusion of cultural components, directed interviews, further exposition of gram-

mar, idioms, and nuance, with opportunity for manipulation of language and individual expression of ideas.

Accelerated Beginning Spanish (F)

16.0905-103 3 hrs. cr.
Oral-aural method is used to develop concurrently the skills of speaking, understanding, reading, and writing Spanish. Emphasis on basic grammatical principles and vocabulary. Covers substantial portion of the basic grammar. Three hrs. lab required. Course designed for students who have completed a minimum of 2 years of Spanish at the high school level. Prerequisite: Permission.

Accelerated Intermediate Spanish (S)

16.0905-104 3 hrs. cr.
Continuation of Spanish 103. Acquisition of a more thorough understanding of the fundamentals of Spanish. Stresses spoken language, vocabulary building, pronunciation proficiency, and grammar essentials. Three hrs. language lab required. Course designed for students who have completed Spanish 103. Prerequisite: Permission.

Intermediate Spanish II (F, S)

16.0905-201 3 hrs. cr.
Continued development of the four basic language skills in the target language through the study of traditional grammar, structured and spontaneous audio-aural activities, and short readings. The study of more complex patterns in Spanish syntax is emphasized. Prerequisites: Span 101 and 102. Students who have completed 4 years of high school Spanish may enroll with the approval of instructor. Meets 3 times a week. Language laboratory required.

Introduction to Hispanic Literature and Culture (F, S)

16.0905-202 3 hrs. cr.
Skills of understanding and speaking through the examination of short literary selections by Peninsular and Spanish American writers as presented in their cultural context. Readings in Spanish civilization.

The Hispanic World Today (S)

16.0905-203 3 hrs. cr.
A study of Mexico (or Spain), its people and culture against a linguistic and historical background. Examines elements which influence patterns of cultural behavior and popular attitudes in a contemporary Hispanic nation. Some of these elements are geography, history, politics, socioeconomics, and demography as well as the peninsular cultural heritage. Students will spend a minimum of 30 hrs. in a formal study of the country chosen for that particular year followed by a session of seven to ten days abroad. (In alternate years the course will focus upon either Mexico or Spain.) Taught in English. Students must pay for travel expenses, with specific details available prior to enrollment.

Selected Topics in Spanish (Demand)

16.0905-298 3 hrs. cr.
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Survey of Peninsular Literature (F)

16.0905-319 5 hrs. cr.
Spain's literary history and important representative works and writers from El Cid to the present. Conducted in English and Spanish.

Spanish Syntax and Composition (S)

16.0905-320 5 hrs. cr.
Practice in writing Spanish accompanied by a thorough study of grammar and syntax with emphasis on subtle elements of idiomatic usage. One hr. of laboratory work is required, providing students with active conversational practice.

Introduction to Spanish American Literature (S)

16.0905-332 3 hrs. cr.
Major periods, movements, themes, genre and styles of Spanish American literature with focus on both its artistic and social importance. Includes: history, epic and lyrical poetry, short story, and some essay. Conducted in Spanish.

The Novelistic Tradition: From Cervantes to the Anti-Realism Tendencies in Modern Fiction (Demand)

16.0905-440 3 hrs. cr.
Structure, narrative technique, and aesthetic concepts underlying prose fiction as seen through Cervantes, Rabelais, Flaubert, Balzac, Dickens, Kafka, Garcia-Marquez and Borges. Conducted in English. Open to non-majors. Can be counted toward a major in English but not as a part of the Core Curriculum requirements. Prerequisites: Eng. 101 and 102 or 103.

Independent Study (F, S)

16.0905-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: A GPA of 3.0 in the major field and 15 hrs. of Spanish. The proposed study must be approved by instructor, advisor, department head, and school dean prior to enrollment.

GEOGRAPHY (Geog)

Regions and Nations (F, S)

45.0701-211 3 hrs. cr.
Survey of the peoples of the earth and how their activities are influenced by climate, topography, and natural resources.

Topics in Geography (Demand)

45.0701-298 3 hrs. cr.
Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit ar-

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eas of interest to the social sciences department.

Political Geography (Demand)

45.0701-311 3 hrs. cr.
Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Economic Geography (Demand)

45.0701-322 3 hrs. cr.
World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geography And Culture Of Latin America (Demand)

45.0701-412 3 hrs. cr.
Cultural and physical regions and natural resources of South America, Latin America, Central America, and the Caribbean Islands. Special emphasis is placed on current problems and relations with the United States.

Geography Of The United States And Canada (Demand)

45.0701-422 3 hrs. cr.
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic, and physical phenomena.

Seminar in Geography (Demand)

45.0701-498 1-2-3 hrs. cr.
Study and analysis of selected topics in regional, urban-economic, cultural, or physical geography.

GEOLOGY (Geol)

Introduction to Geology (S)

40.0601-110 5 hrs. cr.
Materials of the earth and those forces producing physiographic changes. Three lectures, two 2 hr. labs or field trips a week.

Earth Environments (Demand)

40.0601-300 4 hrs. cr.
Aspects of the solid earth, the liquid environments of earth and our atmosphere. Discussions of interactions of these and their relationships to human society. Prerequisite: Phys 100.

Historical Geology (Demand)

40.0601-320 4 hrs. cr.
History of the earth, the fossil record, and physical features resultant from earth dynamics of the past. Prerequisites: Phys 100, Geol 110 or equivalent.

Studies in Geology (Demand)

40.0601-498 1-3 hrs. cr.
Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hours. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: Junior standing, Geol 110, and a minimum GPA of 2.5 in 8 hrs. of biology and 8 hrs. of chemistry. Permission of instructor required.

Problems in Geology (Demand)

40.0601-499 1-3 hrs. cr.
Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: A minimum GPA of 3.0 in 20 hrs. of science, Geol 110, and a proven interest in geology.

HISTORY (Hist)

U. S. HISTORY COURSES

United States History 1492-1877 (F, S)

45.0801-110 3 hrs. cr.
Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors.

United States History 1877 to Present (F, S)

45.0801-120 3 hrs. cr.
Survey of the economic, social, and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320.

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Introduction to Public History (F)

45.0801-305 3 hrs. cr.
Public history serves the public through training and education of social sciences students in policy analysis, information gathering and dissemination, preservation, organizational management, and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

United States Social and Intellectual History (Demand)

45.0801-310 3 hrs. cr.
Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Economic History of the United States (F, Even)

45.0801-315 3 hrs. cr.
Development of the American economy and its related institutions from the early national period to the present.

United States History 1877 to Present (Demand)

45.0801-320 3 hrs. cr.
Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320.

The American Frontier (F, Odd)

45.0801-325 3 hrs. cr.
The westward expansion of the United States and its effects upon the social, political, and economic institutions until the close of the frontier in 1890.

History of the American Indian (Demand)

45.0801-330 3 hrs. cr.
Social, political, diplomatic, military, and legal history of the native American society.

Diplomatic History of the United States to 1900 (F, Even)

45.0801-335 3 hrs. cr.
Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Twentieth Century Diplomacy (S, Odd)

45.0801-340 3 hrs. cr.
An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

Age of Jefferson and Jackson (Demand)

45.0801-345 3 hrs. cr.
Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends, and the rise of nationalism.

Civil War and Reconstruction (S)

45.0801-350 3 hrs. cr.
Causes of the Civil War, slavery, and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

The South (F, Even)

45.0801-355 3 hrs. cr.
Social, economic, political, and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

History of Missouri (F, Odd)

45.0801-360 3 hrs. cr.
Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional, and social development.

United States Colonial History (Demand)

45.0801-365 3 hrs. cr.
Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political, and economic growth. Includes the Revolutionary War period.

United States Military Experience 1775 to Present (S)

45.0801-400 3 hrs. cr.
Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization, and technology.

The United States 1870-1920 (Demand)

45.0801-405 3 hrs. cr.
United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement, and World War I.

The United States Since 1920 (S, Even)

45.0801-410 3 hrs. cr.
Impact of politics, diplomacy and economic trends of the United States since 1920.

United States Constitutional History (Demand)

45.0801-428 3 hrs. cr.
Growth and development of the United States Constitution from 1787 to the present.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of department head and school dean. Advanced standing in major field and a minimum GPA of 3.0 are required.

EUROPEAN HISTORY COURSES

Western Civilization to 1660 (F, S)

45.0801-130 3 hrs. cr.
Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression, and daily life in the ancient Near East, Greece, Rome, and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

Western Civilization Since 1660 (F, S)

45.0801-140 3 hrs. cr.
Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions, and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Nineteenth Century Europe (Demand)

45.0801-369 3 hrs. cr.
Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism, and individual national events.

Twentieth Century Europe (Demand)

45.0801-370 3 hrs. cr.
A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems, and current European/world problems.

English History to 1660 (F, Even)

45.0801-375 3 hrs. cr.
Rise and development of the English people from the Celts through the English Civil Wars. Major topics examined include the Anglo-Saxon and Norman contributions to English civilization, the changing roles of monarch, and daily life of various social classes.

English History Since 1660 (S, Odd)

45.0801-380 3 hrs. cr.
English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire, and current position of England in world affairs.

History of Russia to 1725 (F, Odd)

45.0801-387 3 hrs. cr.
History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics, and political institutions.

History of Russia Since 1725 (S, Even)

45.0801-388 3 hrs. cr.
History of Russia since 1725 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution, and Russian life under Communism.

History of Germany (On Demand)

45.0801-390 3 hrs. cr.
Social, political, military, and economic history of Germany, with major concentration on the

post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich, and post World War II.

Medieval History (F, Odd)

45.0801-420 3 hrs. cr.
Europe from the end of the Roman Empire to c. 1500. Emphasis on the emergence of the Papacy, manorialism and feudalism, on the development of cities and an urban economy, and on intellectual life and artistic expression.

The Renaissance and the Reformation 1350-1650 (S, Even)

45.0801-425 3 hrs. cr.
An overview of Europe from 1350 to 1650. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

The Era of the French Revolution and Napoleon (F, Even)

45.0801-435 3 hrs. cr.
An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic, and empire.

European Intellectual History (S, Even)

45.0801-440 3 hrs. cr.
Intellectual, cultural, and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms, and existentialism.

English Constitutional History (Demand)

45.0801-450 3 hrs. cr.
Development of English political and legal institutions with emphasis on the Anglo-Norman background, the rise of parliament, Tudor absolutism, the Stuart period of revolution, development of the Cabinet, nineteenth century democratization, and evaluations resulting from the crisis of the twentieth century.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate, and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the department head and the school dean prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

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ORIENTAL HISTORY COURSES

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

History of China (F, Even)

45.0801-415 3 hrs. cr.
Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centuries.

History of Japan (Demand)

45.0801-430 3 hrs. cr.
Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of department head and school dean. Advanced standing in major field and a minimum GPA of 3.0 are required.

MATHEMATICS (Math)

Beginning Algebra (F, S)

27.0101-020 3 hrs. cr.
Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

Intermediate Algebra (F, S)

27.0101-030 3 hrs. cr.
Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of "C." No credit towards baccalaureate degree.

Intro to College Mathematics (F, S)

27.0101-110 3 hrs. cr.
Basic college mathematics with an introduction to various areas of mathematics such as computer programming, linear programming, set theory, probability and statistics, and geometry. This course satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and sat-

isfactory score on the Mathematics Placement Test, or Math 020 with a grade of "C."

Math for Elementary Teachers I (F, S)

27.0101-111 3 hrs. cr.
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of "C." (Will not meet the Core Curriculum mathematics requirement for nonelementary education majors.)

Trigonometry (Demand)

27.0101-112 3 hrs. cr.
Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: One and one half units of high school algebra, one unit high school geometry, and satisfactory score on the Mathematics Placement Test, or Math 030 with grade of "C," or permission of instructor.

Math for Elementary Teachers II (F, S)

27.0101-120 3 hrs. cr.
A continuation of Math 111. Sets of points, metric and nonmetric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

College Algebra (F, S)

27.0101-130 3 hrs. cr.
Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations, and the binomial theorem. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or Math 30 with grade of "C."

Finite Mathematics (F, S)

27.0101-131 3 hrs. cr.
Finite mathematics with algebra that is designed for business, social science, and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: One and one half units of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 030 with a grade of "C."

Algebra and Trigonometry (F, S)

27.0101-140 5 hrs. cr.
Equivalent of Math 112 and Math 130. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or permission of instructor.

Calculus with Analytic Geometry I (F, S)

27.0101-150 5 hrs. cr.
Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C," or four units of high school mathematics

and a satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry II (F, S)

27.0101-250 5 hrs. cr.
Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C."

Calculus with Analytic Geometry III (F, S)

27.0101-260 5 hrs. cr.
Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C."

Fundamentals of Mathematical Thought (S)

27.0101-300 3 hrs. cr.
Introduction to modern algebra and analysis. Sets, relations, functions, logical development of number systems, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260.

Calculus for the Management and Social Sciences (Demand)

27.0101-302 3 hrs. cr.
Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130, or Math 131, or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

Elementary Statistics (Demand)

27.0501-310 3 hrs. cr.
Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation, and hypothesis testing, with applications to social, managerial, biological, and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.

Problems of Teaching Arithmetic in the Elementary Schools

13.1311-312 2 hrs. cr.
(See Education 312 for description.) Will not count toward a major in mathematics.

Differential Equations (S)

27.0101-322 3 hrs. cr.
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions with applications. Prerequisite: Math 260.

Geometry (F, Even)

27.0101-332 3 hrs. cr.
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean, and nonEuclidean geometries. Prerequisite: Math 250.

Teaching Mathematics in Secondary Schools (S)

13.1311-339 2 hrs. cr.
(See Education 339 for description.) Will not count toward a major in mathematics.

Abstract Algebra (S, Odd)

27.0101-342 3 hrs. cr.
Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains, and fields. Prerequisite: Math 300.

Introduction to Numerical Analysis (S, Even)

27.0301-350 3 hrs. cr.
Error Analysis, solution of polynomial and transcendental equations, co-location polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 115.

Linear Algebra (F)

27.0101-351 3 hrs. cr.
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Introduction to Probability (F)

27.0501-361 3 hrs. cr.
Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. Prerequisite: Math 260.

Introduction to Operations Research (F, Odd)

27.0101-371 3 hrs. cr.
Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260.

Intro to Advanced Calculus (S, Even)

27.0101-421 3 hrs. cr.
Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Numerical Analysis (S, Odd)

27.0301-431 3 hrs. cr.
Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 115.

Mathematical Models (S, Even)

27.0301-452 3 hrs. cr.
Applying mathematics in formulating and analyzing models for real world problems. Topics include linear optimization, game theory, graph models, deterministic and stochastic models, and computer stimulation. Prerequisite: Math 322.

Intro to Mathematical Statistics (S, Odd)

27.0501-462 3 hrs. cr.
Distributions of discrete and continuous random variables, sampling distributions, and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

Seminar in Mathematics (Demand)

27.9999-498 1-3 hrs. cr.
For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Independent Study (Demand)

27.9999-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by advisor, department head, and school dean. See department head for details.

MUSIC (Mus)

Opera or Musical Theatre Performance (S)

50.0903-102,202,302,402 1 hr. cr.
Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

Sight-singing and Ear-training (S)

50.0903-109 2 hrs. cr.
Basic skills and concepts needed for sight-reading, sight-singing, solfege, rhythmic dictation, melodic dictation, and harmonic dictation are introduced, studied, and applied in aural and notated musical examples.

Music Appreciation (F, S)

50.0902-110 3 hrs. cr.
Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Music Theory (F)

50.0904-111 3 hrs. cr.
Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of instructor.

Music Theory (S)

50.0904-112 3 hrs. cr.
Sequential course in written harmony, including inversion, seventh chords, and nonharmonic tones. Prerequisite: Mus 111.

Class Piano (F)

50.0903-113 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. No prerequisite.

Class Piano (S)

50.0903-114 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material studied varies in accordance with educational purpose. Prerequisite: Mus 113 or equivalent.

Concert Chorale (F, S)

50.0903-121,122,321,322 2 hrs. cr.
Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Opera and Musical Theatre (F)

50.0903-133 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals, and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

Musical Theatre and Opera (F)

50.0903-135 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last 10 weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Jazz Band (F, S)

50.0903-141,142,341,342 1 hr. cr.
A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

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Orchestra (F, S)

50.0903-151,152,351,352 2 hrs. cr.
Open to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Consent of instructor. Each class may be repeated one time for credit.

Collegiates (F, S)

50.0903-161,162,361,362 1 hr. cr.
Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated one time for credit.

Brass Choir (F, S)

50.0903-171,172,371,372 1 hr. cr.
Open to all students with band instrument experience. Performance of literature for brass ensemble. Two meetings per week. Each class may be repeated one time for credit.

Conducting Techniques (F)

50.0903-182 2 hrs. cr.
Baton technique, factors in interpretation, score reading, and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 109, Mus 112.

Marching Band (F)

50.0903-191,391 2 hrs. cr.
Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Concert Band (S)

50.0903-192,392 2 hrs. cr.
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Sight-singing and Ear-training (F)

50.0903-210 2 hrs. cr.
Sequential course in using the skills and concepts in sight-singing and ear-training. Sight reading of melodies of increasing difficulty. Ear-training emphasis will be in harmonic dictation. Prerequisite: Mus 109.

Music Theory (F)

50.0904-211 3 hrs. cr.
Modulation, diatonic, seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Mus 112.

Music Theory (S)

50.0904-212 3 hrs. cr.
Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.

Class Piano (F)

50.0903-213 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 114 or equivalent.

Class Piano (S)

50.0903-214 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 213 or equivalent.

INSTRUMENTAL TECHNIQUES (F, S)

String Techniques (F)

50.0903-231 1 hr. cr.

Brass Techniques (S)

50.0903-232

Percussion Techniques (F) (Not open to percussion majors)

50.0903-233

Woodwind Techniques (S)

50.0903-234

Class instruction in the orchestral and band instruments, including a study of methods and materials to be used in the teaching of beginning students.

Recital Attendance (F, S)

50.0903-240 0 hrs. cr.
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

Selected Topics in Music (Demand)

50.099-298 1-3 hrs. cr.
Study of special topics in music not included in another course. Prerequisite: Permission of instructor.

Choral Techniques (F)

50.0903-309 2 hrs. cr.
Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism, and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Permission of instructor.

History of Music (F)

50.0902-311 3 hrs. cr.
General survey of history of music from Greek period to 18th century. Prerequisite: Mus 212.

History of Music (S)

50.0902-312 3 hrs. cr.
From 18th century to the present. Score reading required. Prerequisite: Mus 212.

Music for the Elementary Grades (Demand)

13.1312.332 3 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used.

Music for the Elementary Grades (Demand)

13.1312.333 2 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Marching Band Methods (F)

50.0903-411 2 hrs. cr.
Procedures needed in organization, promotion, equipping, rehearsing, and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band, prior to being enrolled in marching band while taking the course.

Form and Analysis (F)

50.0904-420 3 hrs. cr.
Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212, or permission of instructor.

Orchestration (S)

50.0904-431 3 hrs. cr.
Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212, or permission of instructor.

Music in the Public School (F)

13.1312.432 2 hrs. cr.
Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems, and public relations in music.

Advanced Conducting Techniques (F)

50.0903-444 2 hrs. cr.
Conducting skills, including irregular beat patterns, advance technical problems and methods developed for solving them. Prerequisite: Mus 182.

Senior Recital

50.0903-450 0 hrs. cr.
A solo recital is required of all music majors.

Seminar in Music (Demand)

50.0999-498 1-3 hrs. cr.
For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.

Independent Study (Demand)

50.0499-499 1-3 hrs. cr.
Structured by the advisor with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by advisor, department head, and school dean.

Applied Music—(Private Lessons)

Major in: Brass, Keyboard*, Percussion, String, Woodwind, and Voice. All major applied music offerings may be repeated one time for credit.

50.0903-207	2 hrs. cr.
50.0903-208	2 hrs. cr.
50.0903-407	2 hrs. cr.
50.0903-408	2 hrs. cr.
Elective** in the six areas listed above under major.	
50.0903-103	1 hr. cr.
50.0903-104	1 hr. cr.
50.0903-105	1 hr. cr.
50.0903-106	1 hr. cr.
50.0903-203	1 hr. cr.
50.0903-204	1 hr. cr.
50.0903-305	1 hr. cr.
50.0903-306	1 hr. cr.
50.0903-107	2 hrs. cr.
50.0903-108	2 hrs. cr.
50.0903-307	2 hrs. cr.
50.0903-308	2 hrs. cr.

PARALEGAL (PLS)

Introduction To Legal Assistance (F)

22.0103-201 3 hrs. cr.
American legal system with emphasis on the roles, skills, and tasks of the paralegal. Topics include professional ethics, client interviewing, and legal analysis.

Topics In Paralegal Studies (Demand)

22.0199-298 3 hrs. cr.
Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social sciences department.

Business Law I (F, S)

06.0101-301 3 hrs. cr.
(See GB 301).

Business Law II (F, S)

06.0101-302 3 hrs. cr.
(See GB 302).

Legal Research (F, Odd)

22.0199-302 3 hrs. cr.
Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

Property (S, Odd)

22.0199-311 3 hrs. cr.
Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as deeds, contracts, and leases.

Civil Litigation (S, Even)

22.0199-312 3 hrs. cr.
Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of evidence and procedure, and the preparation of pertinent legal forms.

Family Law (S, Even)

22.0199-320 3 hrs. cr.
Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse, and termination of parental rights and the preparation of pertinent legal forms.

Wills, Trusts, And Probate (F, Even)

22.0199-401 3 hrs. cr.
Law of wills, trusts, and intestate succession; includes analysis of the administration, probate of estates, and the preparation of pertinent legal forms.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.
(See PSc 431).

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.
(See PSc 432).

Internship (Demand)

22.0119-491 3 hrs. cr.
An applied internship of 135 hrs. done under the direct supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials), as approved by department head and school dean.

Senior Seminar (Demand)

22.0119-498 3 hrs. cr.
Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

Independent Study

22.0119-499 1-2-3 hrs. cr.
Study and research by the student under the direction and supervision of instructor/advisor with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0.

PHILOSOPHY (Phil)

Critical Thinking

38.0101-140 3 hrs. cr.
Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

Introduction to Philosophy (F)

38.0101-201 3 hrs. cr.
Comparative survey of major types of philosophy, and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2, section C on page 34.

Ethics (S)

38.0101-212 3 hrs. cr.
Exploration of the problems of value and personal moral standards, comparative survey of major ethical systems, and evaluation of the chief ethical struggles in contemporary society.

Topics in Philosophy

38.0101-298 3 hrs. cr.
Studies in a variety of philosophical subjects. Topic open.

Projects Research

38.0101-300 3 hrs. cr.
Introduces advanced students in the Honors Program to multi-disciplinary critical analysis of research problems.

Ancient Philosophy

38.0101-301 3 hrs. cr.
Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Modern Philosophy (S)

38.0101-302 3 hrs. cr.
A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Comparative Religion (Demand)

38.0101-320 3 hrs. cr.
A philosophical and historical survey, emphasizing the world's major living religions.

Philosophy of Science (S)

38.0101-420 3 hrs. cr.
Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science, and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Seminar in Philosophy

38.0101-498 3 hrs. cr.
Comprehensive analysis of selected topics in philosophy. For upper division students.

School of Arts and Sciences

Independent Study

38.0101-499

1-3 hrs. cr.

Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by advisor, department head, and school dean.

PHYSICS (Phys)

Fundamentals of Physical Science (F,S)

40.0101-100

5 hrs. cr.

Basic concepts in the fields of physics, chemistry, geology, and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Math 20 with a minimum grade of "C" or qualified for Math 110 on the MMPT.

Physical Science for Elementary Teachers

40.0101-101

5 hrs. cr.

Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods, one 2-hr. lab per week. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Physics for Teachers 7-9 (Summers)

40.0801-120

3 hrs. cr.

Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2 hr. lab recitation class per week. Prerequisite: Math 130 or equivalent.

Essential Skills for Physics (F,S)

40.0801-140

3 hrs. cr.

Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. This course is recommended for students who have not had a high school physics course or who feel that their background in physics is inadequate. Three hrs. lecture per week. Prerequisite: Math 140.

Elementary College Physics I (F, S, SS)

40.0801-151

5 hrs. cr.

Mechanics, properties of matter, heat, wave motion, sound, and electrical circuits. Four hrs. lecture, one 2 hr. lab per week. Prerequisite: Math 140.

Elementary College Physics II (S)

40.0801-152

3 hrs. cr.

Magnetism, optics, relativity, radioactivity, nuclear reactions, and further study of mechanics including rotational dynamics. Two hrs. lecture, one 2 hr. laboratory per week. Prerequisite: Phys. 151.

Introduction to Meteorology

40.0401-180

3 hrs. cr.

Principles basic to the understanding of weather and climate. Three lectures per week. Prerequisite: Phys. 100 or equivalent. (Does not count toward a physics major.)

General Physics I (F, S)

40.0801-250

5 hrs. cr.

An introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies, and a study of heat and temperature. Four hrs. lecture, one 3 hr. laboratory-recitation class per week. Prerequisite: Math 150 and Physics 140 strongly recommended.

General Physics II (F, S)

40.0801-260

5 hrs. cr.

Electricity, magnetism, waves, and geometrical and physical optics. Four hrs. lecture, one 3 hr. laboratory/recitation class per week. Prerequisite: Phys 250 and Math 250.

Selected Topics in Physical Sci (F, S)

40.0101-298

1-3 hrs. cr.

Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Astronomy (Demand)

40.0201-300

3 hrs. cr.

The solar system. Kepler's laws, celestial coordinates, and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies, and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Physics 100 or equivalent and one year of high school algebra.

Modern Physics (F)

40.0801-301

4 hrs. cr.

Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics, and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Statics (S, S)

40.0801-312

3 hrs. cr.

Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: 250. Corequisite: Math 260.

Classical Mechanics (S, Odd)

40.0801-322

3 hrs. cr.

Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of

force, accelerated reference frames, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hrs. lecture per week. Prerequisite: Phys 250. Corequisite: Math 322 or permission of instructor.

Thermal Physics (S)

40.0801-341

4 hrs. cr.

Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Math 260 and Phys 260.

Electronic Circuits (S)

40.0801-372

4 hrs. cr.

Ohm's law, Kirchhoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state ac circuits. Two 3 hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260 Corequisite: Math 260.

Intermediate Physics Laboratory (Demand)

40.0801-381

3 hrs. cr.

Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3 hr. laboratories per week. Prerequisite: Phys. 301 or permission of instructor.

Electricity and Magnetism (F, Odd)

40.0801-401

4 hrs. cr.

Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys. 260.

Quantum Mechanics (Demand)

40.0801-452

3 hrs. cr.

Time independent Schroedinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multi-electron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys. 301 and Math 322.

Selected Topics in Physics and Engineering (Demand)

40.0801-480

3 hrs. cr.

One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer, and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Seminar (F, S)

40.0801-498 1-3 hrs. cr.
Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Independent Study (F, S)

40.0801-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by advisor, department head, and school dean.

POLITICAL SCIENCE (PSc)

Government: U.S., State, & Local (F, S)

45.1001-120 3 hrs. cr.
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees.

Topics In Political Science (Demand)

45.1001-298 3 hrs. cr.
Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each semester. Students are encouraged to suggest possible course topics to the political science faculty.

Introduction To Political Science Methods (Demand)

45.1001-300 3 hrs. cr.
The nature, possibilities, and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in non-library types of research projects.

Political Parties And Elections (F, Even)

45.1001-301 3 hrs. cr.
Analysis of the origins, structure, and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

Public Opinion And Pressure Groups (S, Odd)

45.1001-302 3 hrs. cr.
Origins, impact, and measurement of public opinion. Scope, nature, and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

Law, Society, And The Judicial Process (Demand)

45.1001-310 2 hrs. cr.
American legal system with special attention to the organization, methods, processes, and behaviors of the judiciary.

The American Presidency (F, Odd)

45.1001-311 3 hrs. cr.
Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

The Legislative Process (S, Even)

45.1001-312 3 hrs. cr.
Problems of representation, organization of the legislature, participation, and proposals for improved organization. Emphasis on the United States Congress.

State Government (S, Even)

45.1001-320 3 hrs. cr.
General structure, theories, operation, and problems of state government with special emphasis on the government of Missouri.

International Relations (F, Even)

45.0901-321 3 hrs. cr.
Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

International Law (S, Odd)

45.0901-322 3 hrs. cr.
Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

Comparative Government: Europe (F, Odd)

45.1001-331 3 hrs. cr.
An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

Comparative Government: Latin America (S, Even)

45.1001-332 3 hrs. cr.
Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

Municipal Government (F, Odd)

45.1001-341 3 hrs. cr.
Structure, legal status, functions and organization of city, town, and village government in the United States.

Political Theory (F, Odd)

45.1001-411 3 hrs. cr.
Selected Western political philosophies from early recorded history through the present time.

Contemporary Political Thought (S, Even)

45.1001-412 3 hrs. cr.
Twentieth century political ideas.

Public Administration (Demand)

45.1001-421 3 hrs. cr.
Administrative aspects of government; surveys the major subfields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision-making, personnel, public budgeting and finance, policy analysis and program evaluation, and administrative law. Prerequisite: Junior standing or consent of instructor.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.
Political and legal aspects of Supreme Court decision-making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government, and the 1st Amendment rights of freedom of expression.

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.
Legal issues concerning the 1st Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process and equal protection clauses, and the rights of the accused in criminal cases.

Internship In Political Science (Demand)

45.1001-496 3 to 8 hrs. cr.
Observation of and participation in governmental work under the direct supervision of a professional who is employed in the governmental position being observed and a faculty member. No more than 3 hrs. may be counted toward a major or minor.

Seminar In Political Science (Demand)

45.1001-498 3 hrs. cr.
Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

Independent Study (F, S)

45.1001-499 1-2-3-4 hrs. cr.
For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an advisor from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

School of Arts and Sciences

SOCIOLOGY (Soc)

Introduction To Sociology (F, S)

45.1101-110 3 hrs. cr.
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

Introduction To Anthropology (F)

45.1101-155 3 hrs. cr.
Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

Social Problems (F, S)

45.1101-210 3 hrs. cr.
Causes and consequences of economic, political, and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc 110.

Marriage And Family (F)

45.1101-221 3 hrs. cr.
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood, and the development of family relationships throughout the life cycle.

Topics In Sociology (Demand)

45.1101-298 3 hrs. cr.
Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the social sciences department.

Computer Applications in the Social Sciences (S)

45.1101-300 3 hrs. cr.
An analysis of computers and their applications in the social sciences. Focus on pre-existing software designed for use by social science disciplines. Emphasis on data entry, analysis, and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc 432.

Sociology Of Religion (F)

45.1101-301 3 hrs. cr.
Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion, and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

Sociology Of Aging (S)

45.1101-306 3 hrs. cr.
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly, and accumulated data from gerontological research. Such topics as life changes, retirement, and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Multi-Cultural Aging (F)

45.1101-309 3 hrs. cr.
An analysis of older people in different cultures and how the normative structure of each culture creates variation within the aged. Roles the elderly play in day-to-day life and how their positions influence intergenerational relationships will be examined. Emphasis will be placed on cultural groups within the United States and select groups in other countries. Prerequisite: Soc 110.

Social Stratification (F)

45.1101-311 3 hrs. cr.
Examination of differences in power, prestige, and influence. Analysis of the impact of social inequality on people's lives, especially in the United States. Theoretical explanations for the variations in social class. A practical investigation of social class is usually incorporated in the course requirements. Prerequisite: Soc 110.

Juvenile Delinquency (S)

45.1101-312 3 hrs. cr.
Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.

Sociology Of Work And Leisure (S)

45.1101-322 3 hrs. cr.
Analysis of work, occupations, career mobility, and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Introduction To Social Work (F)

45.1101-331 3 hrs. cr.
Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

Social Work Practice (S)

45.1101-332 3 hrs. cr.
Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases, and practical experience in a social agency or community program providing human services. Admission dependent on departmental com-

mittee approval. Prerequisite: Soc 331 and junior standing.

Social Psychology (F)

42.1601-341 3 hrs. cr.
(See Psy 341)

Comparative Cultures (S)

45.1101-342 3 hrs. cr.
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary pre-industrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or 155 or consent of instructor.

Criminology (F)

45.1101-351 3 hrs. cr.
Social and legal concept of crime. Review of measurements and data of crime(s) are reviewed and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Sociology Of Medicine (S)

45.1101-354 3 hrs. cr.
A review of certain sociological data which affect people's health status, health care, and health outlook. Focus on aging, social stratification, demographics, and economic issues relevant to health status. A review of the history, change, and cross cultural comparisons of health care. Prerequisite: Soc 110.

The Study Of Populations (F)

45.1101-361 3 hrs. cr.
Changes in human population through an analysis of birth rates, death rates, and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of overpopulation, minority groups, and aging are analyzed. Prerequisite: Soc 110.

Deviant Behavior (S)

45.1101-362 3 hrs. cr.
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Minority Groups And Race Relations (S)

45.1101-382 3 hrs. cr.
A study of racial and cultural groups focusing primarily on conditions within the United States. Analyzes several general theories or ex-

planations for minority-dominant relations. Includes a study of legislation affecting minorities in the U. S. Prerequisite: Soc 110.

Penology And Corrections (F)

45.1101-391 3 hrs. cr.
Philosophy, history, and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models, and community treatment. Prerequisite: Soc 110.

The Community—Rural And Urban (S)

45.1101-402 3 hrs. cr.
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic, and subcultural communities and how these intertwine in contemporary societies. Prerequisite: Soc 110.

Sociological Theory (F)

45.1101-421 3 hrs. cr.
Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations, and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Sociological Research Methods (S)

45.1101-432 3 hrs. cr.
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.

Mass Society And Social Movements (F)

45.1101-445 3 hrs. cr.
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

Internship In Sociology (Demand)

45.1101-496 1-8 hrs. cr.
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above, and approval of a departmental committee.

Seminar In Sociology (Demand)

45.1101-498 3 hrs. cr.
For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue in-depth research, and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Independent Study (Demand)

45.1101-499 1-2-3 hrs. cr.
Structured by the advisor with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

THEATRE (Th)

Theatre Performance (F, S, S)

50.0501-101,102,201,202,301,302,401,402 1 hr. cr.
The performance of a role, service as a designer or Stage Manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

Theatre Appreciation (F, S, S)

50.0501-110 3 hrs. cr.
An introduction to the what, why, how, and who of theatre. Sessions deal with dramatic form, style, and structure; the contributions of the various theatre artists; and the interpretation and evaluation of plays through scripts and live and taped performances. Provides knowledge and experience for personal enjoyment and evaluation of theatre art. Satisfies 3 semester hours of Core Curriculum requirement in Humanities and Fine Arts, Area 2A or 2C.

Theatre Laboratory (F, S)

50.0501-121,122,221,222,321,322,421,422 2 hrs. cr.
A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a week.

Theatre Technology (S, Even)

50.0501-142 3 hrs. cr.
Hardware and tool usage and technical drawing as applied to theatre. The use of electricity, sound, and electronics in the theatre. Stage rigging.

Oral Interpretation (F, Odd)

50.0501-212 3 hrs. cr.
Principles and techniques for the public presentation of oral reading. Selection, analysis, and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama, and Readers Theatre.

Speech for Stage (F, Odd)

50.0501-231 3 hrs. cr.
Exercises and drills to improve projection, quality, flexibility, and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

Costume Technology (S, Odd)

50.0405-232 2 hrs. cr.
Basic skills for the stage are developed in areas of cutting and sewing, development and use of patterns, the selection and use of fabrics, and dyeing techniques. One hr. lecture, 1 hr. lab per week (for first month), then 2 hrs. lab per week.

Stage Make-up (F, Odd)

50.0501-233 1 hr. cr.
Basic techniques in design and application of stage make-up. Surveys categories of professional make-up techniques as well as sources and costs of material. Two class hrs. in sequence.

Acting I (S, Even)

50.0501-241 3 hrs. cr.
Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Theatre Movement I (Demand)

50.0501-242 1 hr. cr.
Historical development and implementation of theatrical movement. Exercises and assignments will focus on the enhancement of non-verbal character interpretation through individual study and in-class application of movement, gestures, and postures, including an assimilation of cultural influences, pantomime, masque, and improvisation. Two 1 hr. labs per week.

Summer Theatre Production (Demand)

50.0501-250 1-6 hrs. cr.
Students will serve as cast and crew members for a summer production. Practical theatre experience in acting, design, and construction of all areas, plus theatre management.

Audition Techniques for the Actor (S, Odd)

50.0501-251 1 hr. cr.
Techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing, and performing auditions. Instruction in preparing resumes and photographs for professions.

Exploration in Theatre (Demand)

50.0501-298 3 hrs. cr.
Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

School of Arts and Sciences

Stage Management (F, Even)

50.0501-311 2 hrs. cr.
Fundamentals of stage management. Organization of call board, rehearsals, and performances. Communication procedures between actors, director, and designers. Calling the show. Prerequisite: Th 142.

Stage Lighting (Demand)

50.0499-320 3 hrs. cr.
Lighting design approached artistically. The use of lighting for atmosphere, mood, and emphasis. Lighting as applied to art, television, theatre, and motion pictures. Prerequisite: Th 142.

History of the Theatre (F, Even)

50.0501-331 3 hrs. cr.
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management, and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.

History of the Theatre (S, Odd)

50.0501-332 3 hrs. cr.
Plays, playwrights, and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

Acting II (F, Even)

50.0501-341 3 hrs. cr.
The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.

Directing I (F, Even)

50.0501-351 3 hrs. cr.
A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis, and mounting a production. Scene directing. Prerequisite: Th 241.

Stage Costume and Design (S, Even)

50.0405-362 3 hrs. cr.
Survey of clothing styles and social manners in western civilization with emphasis upon theory and practical application as it relates to design of the stage costume.

Directing II (S, Odd)

50.0501-372 3 hrs. cr.
Study of the skills and role of a director, casting, production administration, and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.

Acting III (S, Odd)

50.0501-422 3 hrs. cr.
Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.

Creative Dramatics (F, Odd)

50.0501-431 3 hrs. cr.
Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.

Stage Design (F, Odd)

50.0405-441 3 hrs. cr.
Foundations of design. Sketching, rendering, and perspective techniques. Communications between designers and directors. Prerequisite: Th 142.

Theatre Studies (Demand)

50.0501-498 3 hrs. cr.
Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment must be approved by advisor, department head, and school dean.

Independent Study in Theatre (F, S)

50.0501-499 1-3 hrs. cr.
Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field with GPA of 3.0. Enrollment must be approved by advisor, department head, and school dean.

The School of Business Administration

Four horizontal lines of varying thickness, with the thickest line in the center, separating the title from the textured background below.

School of Business Administration

School Dean

Robert Charles Brown

Degrees and Majors

Bachelor of Science in Business Administration

Accounting
Economics and Finance
General Business
Management
Marketing

Bachelor of Science in Education

Business Education as a single teaching field
Business Education as one of two teaching fields

Bachelor of Science

Management Technology

Associate of Science

Accounting
General Business
Office Administration

One-year Certificate of Achievement

Secretarial Science

Concentration

Entrepreneurship

ROLE

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal, and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete, and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques, or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership, and interpersonal relations within the context of professional education for business administration.

OBJECTIVES

The objectives of the School of Business Administration are:

1. to maintain a relevant curriculum which will provide the necessary managerial and administrative edu-

cation for the School of Business Administration graduates;

2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical, and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service, and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community to identify and serve their educational needs, and to provide opportunity for professional growth for our students and faculty.

STUDENT ORGANIZATIONS

The **National Association of Accountants Student Affiliate Organization** is open to accounting students who seek association with practicing accountants. Students may attend regular meetings with the local chapter, as well as student meetings.

Future Secretaries Association is open to all students with an interest in office administration and business education and is sponsored by Professional Secretaries International. Students are involved in a variety of service projects.

Pi Omega Pi is an honorary Business Education fraternity open to students with three semesters or 15 hours credit in business and education and a 3.0 grade point average.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least nine hours in economics, with a 3.0 in the economics courses.

The **Phi Beta Lambda** organization is based on a set of goals which includes the development of competent, aggressive business leadership; creation of more interest and understanding of American business enterprise; and participation in worthy undertakings for the improvement of business and citizenship.

PBL is open to all business students and serves as a vehicle for professionals.

Students in Free Enterprise (SIFE) is a non-profit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

SMALL BUSINESS DEVELOPMENT CENTER

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

The Southern Business and Economic Review

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

Small Business Institute

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

Business and Economic Lecture Series

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the morning and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

Management Development Institute

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

Center for Entrepreneurship

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

BUSINESS CORE REQUIREMENTS

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major:

Business Administration Core Requirements:

	Semester Hours
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Econ 201 Principles of Economics-Macro	3
Econ 202 Principles of Economics-Micro	3
MM 237 Managerial Data Processing	3
GB 301 Business Law I	3
GB 320 Business Communications	3
GB 321 Business Statistics I	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management	3

Econ 350 Financial Management	3
MM 452 Business Policy	3
Advanced Business Elective*	3

TOTAL BUSINESS CORE 39

* Must be selected in consultation with advisor from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements.

Mathematics—All candidates for the B.S. B.A. degree must complete Mathematics 131, Finite Mathematics, as their Core Curriculum mathematics course.

MINOR IN BUSINESS:

Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
MM 237 Managerial Data Processing	3
Econ 202 Principles of Economics-Micro*	3
Econ 350 Financial Management	3
MM 300 Principles of Marketing	3

MM 350 Principles of Management	3
Total for Minor	21

*Econ 201 should be taken as a Core Curriculum requirement.

Accounting

FACULTY

Cozort, Cunningham, Finke, Goode, Huey, Paapanen, Shaver

The major in accounting leads to the B.S. B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to sit for the C.P.A. examination or to enter private or governmental accounting in a managerial capacity.

The A.S. accounting program of study is designed to prepare the student for book-keeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION WITH A MAJOR IN ACCOUNTING

	Semester Hours
Core Curriculum Requirements (page 34)	51
Business Core Requirements	39
Accounting Major	23
Acct 310 Cost Accounting	3
Acct 312 Intermediate Accounting I	4
Acct 322 Intermediate Accounting II	4

Acct 402 Advanced Accounting	3
Acct 401 Tax Accounting	3
Acct 411 Auditing	3
Advanced Accounting Elective (Must be chosen with advisor approval)	3
Electives	15
TOTAL	128

Associate of Science with a concentration in Accounting

	Semester Hours
Core Curriculum Requirement	25-26
Accounting Concentration	40
GB 320 Business Communication	3
GB 115 Business Math/Microcomputers	3
Acct 201 Principles I	3
Acct 202 Principles II	3

Acct 312 Intermediate I	4
Econ 201 Principles—Macro	3
Econ 202 Principles—Micro	3
MM 237 Managerial Data Processing	3
Acct 310 Cost	3
MM 350 Principles of Management	3
GB 301 Business Law I	3
Acct 401 Tax Acct	3
Elective selected from:	3
GB 302 Business Law II	
Acct 411 Auditing	
GB 321 Business Statistics	
Total	65-66

Suggested Order of Study

Bachelor of Science in Business Administration

Major Code 0502

Accounting Major

Freshman Year

Course	Hours
CORE [Eng 101 Composition]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Composition]	3
CORE [Psy 100 Physical Science]	5
CORE [Communication (Comm 100 or 103)]	3
CORE [Psy 100 or Soc 110]	3
CORE [HPER 101 Activities]	1
	15

Sophomore Year

1st Semester	
Acct 201 Principles of Accounting I	3
CORE [Econ 201 Principles of Economics-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110, or Th 110)]	3
CORE [Hist 110 American History]	3
	15

2nd Semester

Acct 202 Principles of Accounting II	3
Econ 202 Principles of Economics-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281, or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	15

Junior Year

1st Semester	
Acct 312 Intermediate Accounting I	4

100/School of Business Administration

School of Business Administration

CORE	[Humanities and Fine Arts Elective] (See Core Curriculum, page 34)	3
Electives		6
		18
2nd Semester		
MM 452	Business Policy	3
Econ 415	Financial Institutions	3
Electives		10
		16
Total		128

Entrepreneurship

FACULTY

Kleindl

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business start-ups. This concentration prepares the students to start their own businesses.

Requirements for a concentration in Entrepreneurship:

	Semester Hours
Ent 201 Entrepreneurship—Developing a Business Plan	1
Ent 202 Entrepreneurship—Business Opportunities	1
Ent 203 Entrepreneurship—Legal Aspects	1
Ent 204 Entrepreneurial Financing and Information—Initial Capitalization	1
Ent 205 Entrepreneurial Financing and Information—Cash Flow Budgeting	1
Ent 206 Entrepreneurial Financing and Information—Microcomputer Applications	1
Ent 207 Accounting for the New Venture—Procedures	1
Ent 208 Accounting for the New Venture—Records	1
Ent 209 Accounting for the New Venture—Taxation	1
Ent 210 Managing the Small Business—The Management Process	1
Ent 211 Managing the Small Business—Strategic Planning and Organizing	1
Ent 212 Managing the Small Business—Human Relations	1
Ent 213 Marketing the Small Business—Promotion	1

Ent 214 Marketing the Small Business—Pricing	1
Ent 215 Marketing the Small Business—Merchandise/Inventory	1
	15

General Business

FACULTY

Bradshaw, Compton, Culwell, Finke, Gray, Grim, Johnson, Leitle, Miller, Rusley, Vernon

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate, and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION WITH A MAJOR IN GENERAL BUSINESS

Core Curriculum Requirements (page 34)	51
Business Core (page 99)	39
General Business Major:	18
Acct 325 Managerial Acct	3
Econ (selected from 300, 302, 312, 322, 330, 401, 411, 412, 415)	3
MM (selected from 352, 410, 412, 431, 441)	3
MM (selected from 312, 321, 401, 412, 432, 470)	3
MM 337 Management Information Systems	3
Advanced Business Elective (must be selected with advisor consultation and approval)	3
Electives	20
Total	128

ASSOCIATE OF SCIENCE IN GENERAL BUSINESS

	Semester Hours
Core Curriculum Requirement (page 34)	25-26
General Business Concentration	39
GB 115 Business Math/Micro	3
Acct 201 Principles I	3
Acct 202 Principles II	3
Econ 201 Principles—Macro	3
Econ 202 Principles—Micro	3
GB 301 Business Law I	3

GB 302 Business Law II	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management	3
Business Electives	12
(Must be selected with approval of faculty advisor)	
Total	64-65

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0501
General Business Major

Freshman Year

1st Semester		
CORE	[Eng 101 Composition]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Composition]	3
CORE	[Phys 100 Physical Science]	5
CORE	[Communication (Comm 100 or 103)]	3
CORE	[Pys 100 or Soc 110]	3
CORE	[HPER 101 Activities]	1
		15

Sophomore Year

1st Semester		
Acct 201	Principles of Acct I	3
CORE	[Econ 201 Principles of Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110, or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Principles of Acct II	3
Econ 202	Principles of Econ-Macro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281, or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15

Junior Year

1st Semester		
Acct 325	Managerial Acct	3
MM 337	Management Information Systems	3
GB 301	Business Law I	3
MM 350	Principles of Management	3
MM 300	Principles of Marketing	3
		15

School of Business Administration

2nd Semester	
Advanced Elective in Econ/Fin	3
(Must be selected from Econ 300, 302, 312, 322, 330, 401, 402, 411, 412, or 415)	
Advanced Elective in Management	3
(Must be selected from MM 352, 410, 412, 431, or 441)	
GB 320 Business Communications	3
GB 321 Business Statistics	3
Advanced Business Elective	
(Must be selected in consultation with advisor from courses numbered 300 or above within the School of Business Administration)	
Electives	18

Senior Year

1st Semester	
Advanced Elective in Marketing	3
(Must be selected from MM 312, 321, 401, 412, 432, or 470)	
Econ 350 Financial Management	3
CORE [International Cultural Studies]	3
(GB 310 Strongly recommended)	
CORE [Humanities and Fine Arts Elective] (See Core Curriculum Requirements, page 34)	3
Electives	6

2nd Semester

Advanced Business Elective	3
(Must be selected in consultation with faculty advisor from courses numbered 300 or above within the School of Business Administration)	
MM 452 Business Policy	3
Electives	10

Total

128

Associate of Science

Major Code 5001

General Business Concentration

Freshman Year

1st Semester	
Acct 201 Principles I	3
CORE [Eng 101 Composition]	3
GB 115 Business Math/Micro	3
CORE [Psy 100 or Soc 110]	3
CORE [Math (30 or above)]	3
CORE [HPER 103 Lifetime Wellness]	2
	17

2nd Semester

Acct 202 Principles II	3
CORE [Econ 201 Principles—Macro]	3
CORE [Hist 110 or PSc 120]	3
CORE [Comm 100 Oral Communication]	3
CORE [Art 110, Mus 110, Th 110, Literature or Phil 201]	3
CORE [HPER 101]	1
	16

Sophomore Year

1st Semester	
Business Electives	6
(Must be selected with advisor approval)	
GB 301 Business Law	3
MM 350 Principles of Management	3
Econ 202 Principles—Micro	3
	15
2nd Semester	
MM 300 Principles of Marketing	3
Business Electives	6
(Must be selected with advisor approval)	
CORE [Bio 101 or Phys 100]	4-5
GB 302 Business Law II	3
	16-17

Management

FACULTY

Bell, Blades, Bradshaw, Gray, Johnson, Marion, Miller, Stevens, Vernon

The B.S.B.A. degree with a major in management is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION WITH A MAJOR IN MANAGEMENT

Semester Hours

Core Curriculum Requirement (page 34)	51
Business Core Requirement	39
Management Major	18
MM 337 Management Information Systems	3
MM 352 Personnel	3
MM 431 Operations	3
MM 441 Organizational Behavior	3
Acct 325 Managerial Acct	3
Advanced Elective (MM 410, 411 or 412 strongly recommended)	3
Electives	20
	128

Suggested Order of Study

Bachelor of Science in Business Administration

Major Code 0508

Management Major

Freshman Year

1st Semester	
CORE [Eng 101 Composition]	3
CORE [Math 131 Finite Math]	3

CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	15

2nd Semester

CORE [Eng 102 Composition]	3
CORE [Phys 100 Physical Science]	5
CORE [Communication (Comm 100 or 103)]	3
CORE [Pys 100 or Soc 110]	3
CORE [HPER 101 Activities]	1
	15

Sophomore Year

1st Semester	
Acct 201 Principles of Acct I	3
CORE [Econ 201 Principles of Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110, or Th 110)]	3
CORE [Hist 110 American History]	3
	15

2nd Semester

Acct 202 Principles of Acct II	3
Econ 202 Principles of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281, or 282)]	3
CORE [Hist 120 U.S. History 1877 to Present]	3
Elective	3
	15

Junior Year

1st Semester	
MM 337 Management Information Systems	3
Acct 325 Managerial Accountings	3
GB 301 Business Law I	3
MM 350 Principles of Management	3
MM 300 Principles of Marketing	3
	15

2nd Semester

MM 352 Personnel Management	3
Econ 350 Financial Management	3
GB 320 Business Communications	3
GB 321 Business Statistics	3
Advanced Business Elective	3
(Must be selected in consultation with faculty advisor from courses numbered 300 or above within the School of Business Administration)	
Elective	3
	18

Senior Year

1st Semester	
MM 431 Operations Management	3
MM 441 Organizational Behavior	3
CORE [International Cultural Studies] (GB 310 Strongly recommended)	3
CORE [Humanities and Fine Arts Elective] (See Core Curriculum Requirements, page 34)	3
Electives	6
	18

2nd Semester	
Advanced Elective	3
(Must be selected in consultation faculty advisor: MM 410, 411 or 412 strongly recommended)	3
MM 452 Business Policy	3
Electives	11
Total	17

Marketing

FACULTY

Blades, Bradshaw, Johnson, Marion, Miller, Stevens

The B.S.B.A. in Business Administration with the marketing major is intended to prepare graduates for positions in retailing, sales management, promotion, and general administration.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION WITH A MAJOR IN MARKETING:

	Semester Hours
Core Curriculum Requirements	51
Business Core Requirements	39
Marketing Major	18
MM 312 Retailing	3
MM 321 Salesmanship	3
MM 401 Promotional Strategy	3
MM 412 Marketing Management	3
MM 432 Consumer Behavior	3
MM 470 Marketing Research	3
Electives	20
	128

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0507
Marketing Major

Freshman Year

1st Semester	
CORE [Eng 101 Composition]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	15

2nd Semester	
CORE [Eng 102 Composition]	3
CORE [Phys 100 Physical Science]	5
CORE [Communication (Comm 100 or 103)]	3
CORE [Psy 100 or Soc 110]	3
CORE [HPER 101 Activities]	1
	15

Sophomore Year

1st Semester	
Acct 201 Principles of Acct I	3
CORE [Econ 201 Principles of Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110, or Th 110)]	3
CORE [Hist 110 American History]	3
	15

2nd Semester

Acct 202 Principles of Acct II	3
Econ 202 Principles of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281, or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	15

Junior Year

1st Semester	
GB 301 Business Law I	3
MM 350 Principles of Management	3
MM 300 Principles of Marketing	3
GB 321 Business Statistics	3
Electives	3
	15

2nd Semester

MM 312 Retailing	3
MM 321 Salesmanship	3
GB 320 Business Communications	3
(Must be selected in consultation with faculty advisor from courses numbered 300 or above within the School of Business Administration)	
Elective	9
	18

Senior Year

1st Semester	
MM 401 Promotional Strategy	3
MM 412 Marketing Management	3
CORE [International Cultural Studies] (GB 310 Strongly recommended)	3
CORE [Humanities and Fine Arts Elective] (See Core Curriculum Requirements, page 34)	3
Electives	6
	18

2nd Semester	
MM 432 Consumer Behavior	3
MM 470 Marketing Research	3
MM 452 Business Policy	3
Electives	8
	17
Total	128

BACHELOR OF SCIENCE IN MANAGEMENT TECHNOLOGY

The B.S. management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the advisor and school dean, and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students *must* apply for admission to the program in the first semester of the junior year.

BACHELOR OF SCIENCE IN MANAGEMENT TECHNOLOGY

	Semester Hours
Core Curriculum (page 34)	61
Management Technology Major:	42
(1) Required:	
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
GB 301 Business Law I	3
GB 302 Business Law II	3
GB 320 Business Communications	3
Econ 201 Principles of Economics-Macro	3
Econ 202 Principles of Economics-Micro	3
Econ 350 Financial Management	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management	3
MM 431 Operations Management	3
	33

(2) Three additional courses selected from:

Acct 310 Cost Accounting	
GB 321 Business Statistics I	
GB 237 Managerial Data Processing*	
MM 401 Promotional Strategy	
MM 412 Marketing Management	
MM 352 Personnel Management	
MM 452 Business Policy	

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School of Business Administration

Electives (Includes courses already taken at associate level) 35
128

*Students obtaining an A.S. in computer science may not choose GB 237 as a required elective.

Office Administration and Business Education

FACULTY

Compton, Culwell, Grim, Rusley

Secretarial training is available under both an associate of science degree and a one-year certificate. The A.S. office administration major course of study provides both secretarial skills and the necessary business skills for a graduate to manage an office. The one-year certificate in the secretarial science major course of study prepares a recipient to function as a clerk-typist.

ASSOCIATE OF SCIENCE IN OFFICE ADMINISTRATION

	Semester Hours
Core Curriculum (page 34)	25-26
Office Administration Major:	39
Acct 201 Principles of Accounting I	3
GB 320 Business Law I	3
GB 301 Business Communications	3
OA 200 Typewriting III	3
OA 220 Shorthand III	3
OA 230 Administrative Secretarial Procedures	3
OA 231 Machine Transcription/Reprographics	3
OA 240 Records Management	3
OA 250 Introduction to Word Processing	3

Electives: (May include prerequisite courses to OA 200 and OA 220 if needed. Others must be selected from MM 350 Principles of Management, Acct 202 Principles of Accounting II, Econ 201 Principles of Economics-Macro, Econ 202 Principles of Economics-Micro, or GB 115 Business Math/Microcomputers. Selections from psychology and computer science also are valid, with approval from advisor.) 12
64-65

Requirements for One Year Certificate of Achievement in Secretarial Science:

	Semester Hours
OA 120 Shorthand II	3
OA 102 Typewriting II	3
GB 115 Business Math/Microcomputers	3
Acct 201 Principles of Accounting I	3
CORE [Eng 101 Composition]	3
GB 320 Business Communications (Eng 102)	3
OA 200 Typewriting III (OA 102)	3
OA 220 Shorthand III	3
OA 231 Machine Transcription/Reprographics	3
CORE [Comm 100 Oral Communications]	3
	30

Suggested Orders of Study

Associate of Science
Major Code 5005
Office Administration

Freshman Year

	1st Semester	Hours
Course		
CORE [Psy 100 or Soc 110]		3
CORE [Comm 100 Oral Communications]		3
CORE [Eng 101 Composition]		3
CORE [Math 30 Intermediate Algebra OR Math 110]		3
Psy 120 College Orientation		1
Business Elective		3
		15

2nd Semester

GB 320 Business Communications	3
OA 200 Typewriting III	3
CORE [Literature, Art 110, Mus 110, Th 110, or Phil 201]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Psc 120 or Hist 110, or 120]	3
Business Elective	3
	17

Sophomore Year

	1st Semester	Hours
OA 231 Machine Transcription/Reprographics		3
Acct 201 Principles of Accounting I (Math 131)		3
GB 301 Business Law I		3
Business Electives		6
HPER 101 Introduction to Physical Activities		1
		16

2nd Semester

OA 230 Administrative Secretarial Procedures	3
OA 220 Shorthand III	3
OA 250 Word Processing	3
CORE [Physical Science 100 or Bio 100]	4-5
OA 240 Records Management	3
	16-17

Business electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from principles of management, accounting, economics, or business math. Psychology or computer science courses may be selected with approval of advisor.

Secretarial-Typist Certificate Major Code 5065 One-year Schedule

1st Semester

Course	Hours
CORE [Comm 100 Oral Communications]	3
OA 102 Typewriting II	3
OA 120 Shorthand II	3
CORE [Eng 101 Composition]	3
OA 231 Machine Transcription/Reprographics	3
	15

2nd Semester

GB 115 Business Math/Microcomputers	3
OA 200 Typewriting III	3
OA 220 Shorthand III	3
GB 320 Business Communications	3
Acct 201 Principles of Accounting I	3
	15

BACHELOR OF SCIENCE IN EDUCATION (BUSINESS MAJOR)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

BACHELOR OF SCIENCE IN EDUCATION WITH BUSINESS AS A SINGLE TEACHING FIELD (PLAN B)

	Semester Hours
Core Curriculum (page 34)	51
Education courses (page 115)	35
Business Major:	42
OA 102* Typewriting II	3
OA 200* Typewriting III	3
OA 120* Shorthand II	3
OA 220* Shorthand III	3
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Accounting—Choose one:	3

Acct 312 Intermediate Accounting I	4
Acct 310 Cost Accounting	3
Acct 401 Tax Accounting	3
MM 237 Managerial Data Processing	3
Econ 201 Prin of Economics-Macro	3
GB 320 Business Communications	3
GB 301 Business Law I	3
OA 250 Intro to Word Processing	3
GB 312 Prin of Business Education	3
MM 350 Principles of Management	3
Recommended Electives (but not required):	
OA 230 Administrative Secretarial Procedures	
GB 115 Business Math/Microcomputers	
OA 231 Machine Transcription/Reprographics	

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*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 42 hour requirement.

BACHELOR OF SCIENCE IN EDUCATION WITH BUSINESS AS ONE OF TWO TEACHING FIELDS (PLAN A)

Core Curriculum (page 34)	51
Education courses (page 115)	35
Business Major:	33-34
OA 102* Typewriting II	3
OA 200* Typewriting III	3
OA 120* Shorthand II	3
OA 220* Shorthand III	3
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Accounting: Select One:	3-4
Acct 312 Intermediate Accounting I	4
Acct 310 Cost Accounting	3
Acct 401 Tax Accounting	3
Econ 201 Prin of Economics-Macro	3
GB 320 Business Communications	3
GB 301 Business Law I	3
MM 237 Managerial Data Processing	3

Recommended Electives (but not required)

GB 115 Business Math/Microcomputers	
OA 231 Machine Transcription/Reprographics	
OA 250 Introduction to Word Processing	

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses to meet the 33 hours requirement.

Suggested Order of Study

Bachelor of Science
Major Code 0838
Business Education
Plan B-Single Teaching Field

Freshman Year

1st Semester

Course	Hours
CORE [Eng 101 Composition]	3
CORE [Hist 110 U.S. History]	3
CORE [Art 110, Mus 110, or Th 110]	3
CORE [Psy 110 Psychology of Human Development]	5
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	17

2nd Semester

CORE [Eng 102 Composition]	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE [Hist 120 or 320]	3
CORE [Math 131 Finite Math]	3
Psy 302 Exceptional Child	2
Elective	3
	17

Sophomore Year

1st Semester

CORE [Econ 201 Prin of Economics]	3
Acct 201 Prin of Accounting I (Math 131)	3
CORE [Bio 101 General Biology]	4
CORE [Literature (Eng 261, 262, 271, 272, 281, 282)]	3
CORE [HPER 101 Intro. to Physical Activities]	1
Ed 300 Clinical Experience	2
	16

2nd Semester

Acct 202 Principles of Accounting II (Acct 201)	3
MM 237 Managerial Data Processing	3
CORE [Gen Ed Phys 100]	5
CORE [Comm 100 or 103]	3
Elective	3
	17

Junior Year

1st Semester

Acct 312 Intermediate Accounting I or Acct 310 Cost Accounting or Acct 410 Tax Accounting (Acct 202)	3
GB 301 Business Law I	3
OA 120 Shorthand II	3
MM 350 Principles of Management	3

Typewriting II	3	†OA 102
	15	

2nd Semester

Humanities	3
OA 200 Typewriting III (OA 102)	3
OA 220 Shorthand III (OA 120)	3
Psy 310 Educational Psychology	2
GB 320 Business Communications (Eng 102)	3
Educ 422 Reading in Secondary School	2
	16

Senior Year

1st Semester

CORE [International Cultural Studies]	3
OA 250 Introduction to Word Processing (OA 102)	3
ED 330 Structure of Teaching	2
ED 331 Microteaching	2
GB 312 Principles of Business Ed	3
ED 370 Instructional Media	2
	15

2nd Semester

Professional Semester	16
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For additional information contact:
Dean of School of Business Administration
Office: 302 Matthews Hall
Phone: 625-9319

Students with proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 42 hours requirement.

SCHOOL OF BUSINESS COURSE DESCRIPTIONS

ACCOUNTING (Acct)

Principles of Accounting I (F, S)

06.0201-201 3 hrs. cr.
Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Principles of Accounting II (F, S)

06.0201-202 3 hrs. cr.
A continuation of Accounting 201 with emphasis on corporation accounting. Prerequisite: Acct 201.

Cost Accounting (F, S)

06.0201-310 3 hrs. cr.
Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and

School of Business Administration

process cost systems as applied to industrial enterprise. Prerequisites: Acct 202, GB 237.

Intermediate Accounting I (F, S)

06.0201-312 4 hrs. cr.
The first of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). The course is organized in four major areas: (1) environment of financial accounting and the basic theoretical considerations underlying financial accounting concepts and standards; (2) financial accounting process from transaction analysis to the financial statements; (3) accounting for current assets; (4) accounting for property, plant, and equipment assets and intangible assets. Prerequisite: Acct 202.

Intermediate Accounting II (F, S)

06.0201-322 4 hrs. cr.
The second of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Organized in four major areas: (1) accounting for current liabilities, long-term liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) accounting for pensions, leases, and income taxes; (4) financial statement reporting and analysis. Prerequisite: Acct 312.

Managerial Accounting

06.0201-325
Accounting as a tool for the process of planning, controlling, and decision making. Emphasis on where accounting data is obtained, what kind of information is needed, and how it is used in the management process. This course is not intended for the accounting major. Prerequisite: Acct 202.

Tax Accounting (F, S)

06.0201-401 3 hrs. cr.
Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission.

Advanced Accounting (S)

06.0201-402 3 hrs. cr.
Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322.

Auditing (F, S)

06.0201-411 3 hrs. cr.
Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling,

the impact of electronic data processing, and performing an audit. Prerequisite: Acct 322.

CPA Problems (Demand)

06.0201-412 3 hrs. cr.
Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures, and problem solving exercises on examination subjects, and a review of appropriate theoretical and technical pronouncements. Prerequisite: 21 hrs. of accounting including Acct 411, or senior standing and permission of instructor.

Accounting Theory (S)

06.0201-420 3 hrs. cr.
Study of the theory of income, asset valuation, and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prepares the student for the CPA Theory Examination. Prerequisite: Acct 322.

Governmental & Institutional Accounting (F)

06.0201-421 3 hrs. cr.
Accounting principles, standards, and procedures that apply to nonprofit organizations such as state and local governments, schools, hospitals, and churches. Prerequisite: Acct 312.

Internship in Public Accounting (Demand)

06.0201-491 1-8 hrs. cr.
Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee.

Seminar in Accounting (Demand)

06.0201-498 1-3 hrs. cr.
For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498—Seminar in Advanced Tax
498—Seminar in Advanced Auditing
498—Seminar in Advanced Cost

Independent Study in Accounting (Demand)

06.0201-499 1-3 hrs. cr.
Individually directed readings, research, and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.0 GPA.

GENERAL BUSINESS (GB)

Introduction to Business (F, S)

06.0101-101 3 hrs. cr.
Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law, and taxation. Not available for credit for those with more than 6 hrs. of business.

Business Mathematics/Microcomputers (F, S)

06.0101-115 3 hrs. cr.
Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes, and financial statements. Recommended for associate degree students only. Prerequisite: Permission of instructor.

Business Law I (F, S)

06.0101-301 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes a study of the court systems and procedures, contracts, personal property and bailments, sales, and commercial paper. Special emphasis on Missouri case-law and statutes. Lectures supported by actual case decisions and case digests. Prerequisite: Junior standing.

Business Law II (F, S)

06.0101-302 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property, and estates. Prerequisites: Junior standing.

Principles of Business Education (F)

06.0101-312 3 hrs. cr.
Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations, and vocational programs.

International Business

06.0101-310 3 hrs. cr.
Introduction to the complexities of international trade. Focus on cultural differences, theories of international trade, and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or 201.

Business Communication (F, S)

06.0101-320 3 hrs. cr.
Communication through sound written and oral business messages. Includes principles, functions, techniques, and format of writing effective letters, memos, and reports with emphasis on the application process. Prerequisites: 6 hrs. English Composition or consent of instructor.

Business Statistics I (F, S)

06.1301-321 3 hrs. cr.
Basic concepts of descriptive and inferential statistics and to the methods of statistical analysis as they apply to business decision making. Topics studied include: frequency distribution, measures of central tendencies and dispersion, sample regression and correlation analysis, time series and seasonal analysis, probability concepts, sampling distributions, and estimation procedures. Prerequisites: Math 130 or 131 or higher, GB 237.

Business Statistics II (S)

06.1301-322 3 hrs. cr.
Methods of statistical analysis relating to business decision making and research in business and economics. Covers sampling theory, parametric test of hypotheses, analysis of variance, nonparametric test of hypotheses, statistical quality control, decision making under uncertainty, index numbers, and other selected statistical techniques. Prerequisite: GB 321.

Seminar in General Business (Demand)

06.0101-498 1-3 hrs. cr.
For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498-Seminar in Office Machines
498-Seminar in Career Orientation
498-Seminar in Human Relations

Independent Study in General Business (Demand)

06.0101-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.0 GPA.

ECONOMICS AND FINANCE (Econ)

The American Economic System (F, S)

06.0501-180 3 hrs. cr.
A general education course on the goals, organization and operation of the U.S. market economy. Topics include: scarcity and choice; the operation of the pricing mechanism and the

role of competition, profits, savings, and investment in the allocation of resources; the economic functions of government; limitations of the market system; market versus command economies; and the industrial organization of our contemporary capitalistic economy with emphasis on the activities of the business firm. Not for credit for business majors or for those who have taken Econ 201 or 202.

Principles of Economics (Macro) (F, S)

06.0501-201 3 hrs. cr.
Economic principles that apply to the economy as a whole, such as: total income, output, employment, general price level, economic growth, international trade, monetary and fiscal policies, and current economic problems. Prerequisite: Sophomore standing or permission, Math 130 or above.

Principles of Economics (Micro) (F, S)

06.0501-202 3 hrs. cr.
Fundamental institutions of the American economy, the theory of price determination, and the theory of income distribution. Prerequisite: Sophomore standing or permission, Math 130 or above.

Money and Banking (F, S)

06.0501-300 3 hrs. cr.
The nature, need constituents, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

Economic Growth and Development (Demand)

06.0501-302 3 hrs. cr.
The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations, and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Economic Resources (Demand)

06.0501-312 3 hrs. cr.
Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization, and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

Business Statistics II

06.1301-322
(See Gen. Bus. 06.1301-322 Bus. Statistics II.)

Principles of Insurance (Demand)

06.0801-330 3 hrs. cr.
Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance, and life insurance. Prerequisite: Econ 201 and 202.

Financial Management (F, S)

06.0501-350 3 hrs. cr.
Examination of the financial structure of business organization, capital structure, and methods of raising fixed and working capital; questions of financial policy, such as dividend policies and the conservation of surplus; comparative balance sheets and income-expense statements. Prerequisites: Econ 201 and 202, Acct 202, GB 237.

Microeconomic Analysis (F)

06.0501-401 3 hrs. cr.
A study of the price system and resource allocation through a system of markets and prices, the conditions for an efficient economic system, the determination of product and input prices under various types of markets. Marginal productivity and income distribution, and optimum welfare. Prerequisites: Econ 201 and 202.

Macroeconomic Analysis (S)

06.0501-402 3 hrs. cr.
Fundamental concepts and theories of the aggregate economic variables, an aggregate economic model of the economy including goods market, money market, labor market, and foreign market; their interrelation and interaction. Comparative static and dynamic analysis. The economic growth in a dynamic setting, inflation and income distribution. Prerequisite: Econ 300.

Investments (F)

06.1001-411 3 hrs. cr.
Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Urban and Regional Economics (Demand)

06.0501-412 3 hrs. cr.
Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives, and current urban problems. Prerequisites: Econ 201 and 202.

School of Business Administration

Financial Institutions

06.0501-415 3 hrs. cr.
A broad introduction to the operation, mechanics, and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks, and savings institutions, and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.

Seminar in Economics & Finance (Demand)
06.0501-498 1-3 hr. cr.
Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:

498-Seminar in International Economics
498-Seminar in Business Cycles
498-Seminar in Public Finance

Independent Study in Economics-Finance (Demand)

06.0501-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

MARKETING AND MANAGEMENT (MM)

Managerial Data Processing (F, S)

06.1201-237 3 hrs. cr.
Application of automatic information processing to business, the media for recording, processing and controlling of business information by the automatic process, and the formats and flow of data through electronic computers with simulated problems applicable to areas of accounting, management, and marketing. Credit may not be allowed for both MM 237 and CIS 305. Formerly GB 237.

Principles of Marketing (F, S)

06.1401-300 3 hrs. cr.
Survey of major marketing methods, institutions, and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing research, and marketing cost are treated from the standpoint of consumers, middlemen, and manufacturers. Prerequisite: Econ 202.

Retailing (F, S)

06.1401-312 3 hrs. cr.
Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

Salesmanship (F)

06.1401-321 3 hrs. cr.
Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

Management Information Systems

06.1201-337 3 hrs. cr.
Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120. Formerly GB 237.

Principles of Management (F, S)

06.0401-350 3 hrs. cr.
Survey of the current state of the art and science of management. The study of the role of managers and how through the coordination of the managerial functions (planning, organizing, leading, contributing, etc.) organizational and individual goals may be achieved.

Personnel Management (F, S)

06.0401-352 3 hrs. cr.
Principles and practices of management with emphasis on the human factors, including procurement, development, and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

Promotional Strategy (S)

06.1401-401 3 hrs. cr.
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising, and formulation of campaigns. Prerequisite: MM 300.

Small Business Management Practicum (F, S)

06.1801-410 3 hrs. cr.
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated to a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

Labor Law (Demand)

06.0101-411 3 hrs. cr.
Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment prac-

tices. Prerequisite: Junior standing. Formerly GB 411.

Marketing Management (F)

06.1501-412 3 hrs. cr.
Managerial aspects of marketing: problems involved in goal setting, planning, and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy, and marketing intelligence. Prerequisites: MM 300 and MM 350.

Operations Management (F)

06.0401-431 3 hrs. cr.
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design, and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

Consumer Behavior (Demand)

06.1499-432 3 hrs. cr.
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic, and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

Organizational Behavior (F, S)

06.1501-441 3 hrs. cr.
Study of people in organizations to provide an opportunity for more self awareness. Focuses on organizational effectiveness as well as satisfaction of individual needs. Students are offered the opportunity to develop more fully their ability to analyze and act on human behavior problems they will face in the future. Prerequisite: MM 350.

Business Policy (F, S)

06.0401-452 3 hrs. cr.
An integrating capstone course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisites: MM 300, MM 350, Econ. 350. This course must be taken during the last year of college work.

Marketing Research (S)

06.0401-470 3 hrs. cr.
The systematic gathering, recording, analyzing, and presentation of data relating to market analysis, sales analysis, consumer research, advertising research, and attitude research. Prerequisites: GB 321, and six hours of marketing.

Internship in Marketing/Management (F, S)

06.1501491 18 hrs. cr.
An internship for senior marketing/management students with an opportunity to observe and participate in actual business oper-

ations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: Senior standing and department approval.

Seminar in Marketing & Management (Demand)

06.1401-498 1-3 hrs. cr.
Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Independent Study in Marketing and Management (Demand)

06.1401-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.

OFFICE ADMINISTRATION AND BUSINESS EDUCATION (OA)

Typewriting I (F, S)

07.0601-101 3 hrs. cr.
Emphasis on learning to manipulate the typewriter efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one or more units of high school typewriting.

Typewriting II (F, S)

07.0601-102 3 hrs. cr.
A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables, and employment communications. Prerequisite: OA 101 or a good knowledge of the keyboard.

Shorthand I (S)

07.0601-111 3 hrs. cr.
A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Prerequisite: Typewriting 101 or equivalent.

Business Mathematics/Microcomputers (F, S)

06.0101-115 3 hrs. cr.
Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities,

insurance, payrolls, taxes, and financial statements. Recommended for associate degree students only. Prerequisite: Permission of instructor.

Shorthand II (F)

07.0601-120 3 hrs. cr.
A dictation course including a review of theory and special attention to the development of efficient transcription procedures. Dictation ranges from 60 to 110 words per minute. The minimum speed requirement by the end of the semester is 80 words per minute with 95 percent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

Typewriting III (S)

07.0601-200 3 hrs. cr.
Production of all types of letters, reports, business forms, tables, and legal forms based on realistic office job simulations. Prerequisite: OA 102 or equivalent.

Shorthand III (S)

07.0601-220 3 hrs. cr.
The application of shorthand theory, grammar, punctuation and capitalization rules, and spelling to the transcription of business letters and memoranda. Emphasis on accuracy and rate of transcription and the ability to produce mailable office correspondence. Prerequisite: OA 120 or equivalent or OA 102 or equivalent.

Administrative Secretarial Procedures (S)

07.0601-230 3 hrs. cr.
Secretarial duties performed and the conditions under which the secretary functions. Practice in decision making and the application of secretarial skills through simulated office situations. Offered for sophomores in the office administration curriculum. Prerequisite: OA 120, recommended—GB 320, or permission.

Machine Transcription/Reprographics (F)

07.0601-231 3 hrs. cr.
Students will be introduced to and expected to develop a knowledge of and efficient operable skill in offset, stencil and fluid duplicating machines, other copying machines, transcribing machines, and word processing equipment. Offered for students in the office administration curriculum. Prerequisite: OA 102.

Records Management (S)

07.0601-240 3 hrs. cr.
Intensive exposure to the knowledge and skills needed in modern day records management and their application to various types of businesses. Includes a study of the creation, classification, retention, and disposal of records with emphasis on the control aspect. Offered for students in the office administration curriculum.

Introduction to Word Processing (F, S)

07.0601-250 3 hrs. cr.
Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: OA 102 Typewriting.

Principles of Business Education (F)

13.1303-312
(See General Business 06.0101-312)

Methods of Teaching Business (S)

13.1303-336 2 hrs. cr.
Special methods of instruction problems and difficulties peculiar to the teaching of each business subject; presentation of subject matter; content and arrangement of material, organization and administration. Prerequisite: Admission to the teacher education program and completion of required business courses (page 113). Two hrs. credit in education.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting cycle, from identifying the transaction to posting it to the appropriate ledger account.

3. The third part of the document discusses the role of internal controls in ensuring the accuracy of financial records. It describes various control measures, such as segregation of duties and independent verification, that are designed to minimize the risk of errors and fraud.

4. The fourth part of the document addresses the importance of regular audits in the financial reporting process. It explains how audits provide an independent assessment of the reliability of the financial statements and help to identify areas for improvement.

5. The fifth part of the document discusses the impact of technology on financial reporting. It highlights the benefits of using accounting software and other digital tools to streamline the reporting process and improve the accuracy of the data.

6. The sixth part of the document discusses the importance of transparency in financial reporting. It emphasizes that providing clear and concise information to stakeholders is essential for building trust and ensuring the long-term success of the organization.

7. The seventh part of the document discusses the role of the accounting profession in maintaining the integrity of the financial system. It describes the various standards and regulations that govern the profession and the importance of adhering to these standards.

8. The eighth part of the document discusses the importance of ongoing education and training for accountants. It emphasizes that the accounting profession is constantly evolving, and accountants must stay up-to-date on the latest developments in the field.

9. The ninth part of the document discusses the importance of ethical behavior in the accounting profession. It describes the various ethical principles that guide accountants and the importance of adhering to these principles in all circumstances.

10. The tenth part of the document discusses the importance of communication in the financial reporting process. It emphasizes that clear and effective communication is essential for ensuring that all stakeholders have a clear understanding of the organization's financial performance.

The School of Education & Psychology

School of Education and Psychology

School Dean

Edward P. Merryman

Degrees Offered

Bachelor of Arts

Psychology

Bachelor of Science

Psychology

Bachelor of Science in Education

Elementary Education

Secondary Education

Physical Education

Psychology-Special Education

ROLE

The School of Education and Psychology shares the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the rest of the institution by providing support courses in physical education and psychology to the Core Curriculum of the College. A unique characteristic of the basic teacher preparation program is that the responsibility for training preservice elementary and secondary teachers is shared with academic units outside of the School of Education and Psychology; however, the ultimate responsibility for the program rests with the education department as the governing unit in the teacher preparation program.

The programs in the School of Education and Psychology are service-oriented programs which attract students who wish to make their contribution to society through teaching, research, and humanitarian services. Because of the critical nature of the contributions these students make to society, students who are academically talented are encouraged to join the program.

SCOPE

The School of Education and Psychology contributes to the mission of the College through teaching, community service, and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware

of current pedagogical practices that have been developed from research and learning theory, and they use this knowledge to develop teaching methods, techniques, and procedures to create a maximal learning environment for their students.

Faculty provide services to the community by participating in civic organizations as leaders, members, and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children, and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

TEACHER EDUCATION

Objectives

The role of the teacher education program as it relates to the mission of the College, is to provide the area and state with highly qualified and capable teacher personnel. The scope of the teacher education program, as it relates to the mission of the College, is to train teachers in elementary education, special education, and secondary education. In order to fulfill this mission, the teacher education curricula are based on explicit objectives that reflect the teacher education faculty's concept of the role of the teacher.

The objectives for the teacher education program are:

1. to provide a working knowledge and competency in the philosophical, sociological, and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design, and educational planning.
 2. to guide in the effective application of learning theory. This application shall include the learning environment, learner attributes, and learning tasks.
 3. to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology, and the arts.
 4. to develop an understanding of how the human grows and develops.
- This understanding includes the theoretical basis for development and how this relates to teaching and learning.
5. to create an awareness of the cultural diversity that exists in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture.
 6. to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter and the methods, techniques, and skills for teaching the subject matter of the teaching specialty.
 7. to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification, and mental and physical exceptionalities.
 8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness.
 9. to make available experiences in learning how to utilize and apply the new technology in education such as microcomputers, VHS, and film media. To develop effective use of the new technology as delivery systems for instructional purposes.
 10. to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials, and all other physical properties related to learning.
 11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning.

12. to provide the knowledge and skills required for reporting to and working with parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction.
13. to provide practical experiences that accurately reflect the day to day experiences that occur in typical classroom settings. This experience will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods, and techniques as they are applied to learning and the learner.
14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.

BACHELOR OF SCIENCE IN EDUCATION

Students who major in elementary education, elementary education/special education, physical education, psychology/special education, and secondary education, and who successfully complete the requirements for this degree are eligible for teacher certification. Recipients of other degrees, who later decide to teach, can be certified through the Missouri State Department of Elementary and Secondary Education by meeting the requirements prescribed by the Dean of the School of Education and Psychology.

Admission to the Teacher Education Program

Students wishing admission to the teacher education program who are seeking a B.S.E., or who are post baccalaureate students seeking certification and who enter under this catalog (1989-1991) must meet these requirements:

1. reference from an instructor in the major area;
2. reference from an instructor outside the major area;
3. reference from the Structures of Teaching instructor;
4. reference from the Microteaching instructor;
5. satisfactory evaluation from the Junior Block instructors;
6. achievement of a minimum cumulative GPA of 2.5 at the completion of 55 hrs. and Educ 300, Educ 320/330, Educ 321/331, and Educ 370;
7. enhanced ACT composite of 20 or SAT (VM) of 800;
8. pass all sections of the Missouri College Base Test (not required of post baccalaureates);
9. autobiography;
10. application approved by major department.

Admission to Student Teaching

Between the Junior Block and the Professional Block the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a GPA of 2.5 or better and must continue maintaining those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. admission to the teacher education program;
2. GPA of 2.5;
3. completion of methods courses in teaching specialty;
4. no expressed reservations from the student's teaching specialty department or the education department.

The student teaching program is designed for Southern B.S.E. students and students who have completed certification requirements at the College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees must complete the equivalence of the professional semester at Southern and must be in good standing at their institutions. The Dean of the School of Education and Psychology will develop a course plan for each student.

Application for Graduation

During and after the student teaching period, a final check is made to verify the following requirements are met:

1. all requirements for admission into the Teacher Education Program;
2. all requirements for admission to student teaching;
3. all course requirements in Core Curriculum, professional education, and the teaching specialty;
4. satisfactory completion of the National Teachers Examination, the CORE Battery of the NTE, and the teaching area specialty examination;
5. satisfactory completion of the student teaching experience;
6. satisfactory completion of the exit examinations.

Advisement

Each student who enrolls will have an assigned advisor who will help plan a program of studies. A student above the sophomore level will have faculty advisors assigned by the school in which a specialty is chosen. **All post-graduates seeking certification to teach are advised by the department of education.**

Information regarding teacher certification requirements, employment opportunities, professional education requirements, and supervised student teaching may be obtained from the department of education.

Special Education Certification

Special education is offered as an area of concentration in elementary and/or secondary education. Students interested in such certification for teaching special education at any level should check with the department of education for details and requirements. All students preparing to teach in a special education area (LD, MH, BD) must complete supervised student teaching and a practicum in each area of certification. Careful planning makes it possible for a student to receive certification in three areas of special education with little additional course work. In addition to the requirements for the elementary (1-8) or the secondary (7-12) bachelor of science degree in education, students seeking special education certification take the following courses: Educ 324, Educ 430, Educ 474, Educ 420, Educ 407,

Educ 423, Educ 442 Student Teaching Elementary, Educ 444 Student Teaching Special Education, and Educ 446 Practicum with Learning Disabled, Mentally Handicapped, or Behaviorally Disordered students.

Special Education Requirements

Learning Disabled:

The elementary or secondary course sequence, the generic special education sequence above, Educ 404 Methods of Teaching Children with Learning Disabilities, Educ 442 and 444 Student Teaching, and Educ 446 Practicum with Learning Disabled children.

Mentally Handicapped:

The elementary or secondary sequence, the generic special education sequence listed above, Educ 403 Methods of Teaching Mentally Handicapped Children, and Educ 442 or 446 Student Teaching or Practicum with Mentally Handicapped Children.

Behavior Disorders:

Either the elementary or secondary course sequence, the special education sequence, plus Educ 405 Teaching Children with Behavior Disorders, and Educ 442, 444, and 446 Student Teaching or Practicum with Behavior Disordered Children.

Remedial Reading Certification

Students who complete a B.S.E. degree with initial certification in an elementary or secondary education teaching field may also be certified in remedial reading by satisfactorily completing the following courses: Psy 110, Educ-Psy 302, Educ 340, Educ 342, Educ 343, Educ 350, Educ 420, Educ 422, Educ 423, Educ 430, Educ 470, Educ 471, Educ 472, and Educ 474.

Early Childhood Certification

Elementary education majors who wish to certify in early childhood education grades K-3 may do so in conjunction with their coursework in elementary education by taking the following courses: HPER 340 Motor Learning in Physical Education-3 hrs; Educ 423 Classroom Management-2 hrs; Educ 430 Language Development-3 hrs; Educ 316 Introduction to Early Childhood Education-3 hrs;

Educ 319 Early Childhood Education Curriculum-3 hrs; Educ 474 Educational Psychological Testing for Early Childhood and Special Education-3 hrs; Educ 407 Diagnostic Prescriptive Teaching-3 hrs; and Educ 433 Utilizing Family and Community Resources for the Young Child-2 hrs.

Student teaching must be in Early Childhood pre-school through grade 3. Education 300-Clinical Experiences must be in grades K-3, and/or preschool in the Missouri Southern Child Development Center.

Middle School Certification

Elementary education majors who wish to certify in middle childhood education grades 4-9 must complete a 21 hour concentration in a teaching specialty area as specified for certification in grades 7-9. Information for this certification is available from the Dean and the head of the education department. Secondary education majors who wish to obtain middle school certification are requested to see the Dean of the School of Education and Psychology for certification requirements.

Teacher Certification by "Academic Contract"

The Missouri State Department of Education has designed a procedure whereby college graduates who did not take a prescribed teacher education program in their degree programs can meet the necessary requirements to become certified teachers by filing an "Academic Contract" with certain approved colleges and universities. The designated college is responsible for informing the State Department of Education what credit will be needed for certification and for the recommendation to issue the teaching certificate.

An "Academic Contract" may be executed with Missouri Southern on the condition that the person qualifies for admission into its teacher education program, has a signed statement from a school administrator certifying employment, and has been properly enrolled in the College. All regular graduates of the teacher education program at Southern are awarded certification upon the recommendation of the Dean, School of Education and Psychology.

SECONDARY EDUCATION

The curriculum for secondary education at Missouri Southern is a joint effort of each department supporting an area of certification and the education department. Each department, according to established guidelines from the State Department of Education and learned societies and professional organizations, recommends and staffs courses that will lead to certification. The education department provides the professional studies component and provides counseling and advising to insure that all graduation and certification requirements are met.

The Secondary Education Committee, which meets on a regular basis, has adopted the following objectives for all secondary education majors.

Objectives: (Secondary Education 7-12)

Students in secondary education are expected to meet the objectives for all students in teacher education as set forth in standard 2.1 for the teacher education program. The specific objectives for secondary education are as follows.

1. The students shall demonstrate teaching competency in one or more teaching specialties.
2. The students know the general stages of growth and development and can relate these to educational planning in their teaching specialties.
3. The students can demonstrate knowledge of cultural diversity, mental exceptionalities and physical exceptionalities as they relate to instructional planning.
4. The students are aware of at least three classroom management models and can use them for classroom control.
5. The students can develop lesson and unit plans that contain clearly stated objectives, activities that parallel the objectives, and appropriate evaluations that assess the students' performances on these objectives.
6. The students have a knowledge of assessment and evaluation techniques and can apply this knowledge to determine instructional and learning effectiveness.

7. The students are aware of the new technologies in education and can use them in their teaching specialties.
8. The students can apply learning theory to instructional design and educational planning.
9. The students know and can apply a number of teaching methods and techniques, such as lecture, discussion, higher order and divergent questioning, closure, set induction, and the use of examples and illustrations.
10. The students can use teacher evaluation techniques such as peer observation and interaction analysis.
11. The students can demonstrate the knowledge and understandings of philosophical and historical foundations of education.
12. The students can demonstrate a knowledge of current research in the area of teaching effectiveness.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization, or in two different teaching fields with a lesser degree of specialization in each. Specialties available for secondary school teaching are:

1. Art
2. Biology
3. Chemistry
4. Business Education
5. English
6. Spanish
7. Mathematics
8. Music
9. Physical Education
10. Physics
11. Physical Science
12. Social Science
13. Speech & Theatre
14. Computer Science as a second teaching field

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Under certain circumstances, it is possible for students to become qualified to teach art, music, or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

Students interested in coaching interscholastic sports should consult the physical education department.

A student emphasizing secondary education must also complete departmental course requirements under either Plan A or B.

Plan A: (Double Major)

This plan is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum State Department of Education requirements. Plan A is not available in social science, music, or in programs preparing teachers for both elementary and secondary education. **If Plan A is selected, the second teaching field is required.** Students may select an advisor in either department chosen as a major or from the department of education.

Plan B: (Single Teaching Field, Comprehensive Major)

This plan is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field also may qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

Each department that prepares students for secondary school teaching has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music, and in certain programs preparing students for dual certification at both the elementary and secondary school level.

PROFESSIONAL EDUCATION COURSES

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level.

Freshman-Sophomore Year

Students who are planning to enter teaching should take Psy 110, Psychology of Human Development, and Educ 302, The Exceptional Child, during their first two years. Secondary education majors seeking an extended teaching certificate which will also qualify them to teach the same area in the elementary school, must have a course in child development. Anyone preparing at the secondary level must have either Psy 110 Human Development or separate courses in Psy 100 General Psychology and Psy 301 Adolescent Psychology. All secondary education majors must take Educ 422 Reading in the Secondary Schools. Educ 422 may be taken the second semester of the sophomore year or during the junior or senior year on either the six week or 16 week schedule.

Junior Year

Elementary Teaching

*Psy 310 Educational Psychology	2 hrs
Educ 300 Clinical Experiences	2 hrs
Educ 320 Structure of Teaching Elementary	2 hrs
Educ 321 Microteaching Elementary	2 hrs
Educ 370 Introduction to Instructional Media	2 hrs

Secondary Teaching

*Psy 310 Educational Psychology	2 hrs
Educ 300 Clinical Experiences	2 hrs
Educ 330 Structure of Teaching Secondary	2 hrs
Educ 331 Microteaching Secondary	2 hrs
Educ 370 Introduction to Instructional Media	2 hrs
**Educ 422 Reading in the Secondary School	2 hrs

*May be taken sophomore year

**May be taken the second semester of the sophomore year. This course is offered on both the six and 16 week schedule.

Senior Year

The "Professional Semester" occupies one complete semester. For six weeks of the semester, the student enrolls in professional semester courses and during the last 10 weeks of the semester does supervised teaching (approximately 10 weeks). **COURSES OUTSIDE THE BLOCK SHOULD NOT BE SCHEDULED.** Students are also discouraged from participation in outside activities during student

School of Education and Psychology

teaching since this aspect of their program demands much time. Required courses are:

Elementary Teaching

Educ 322	Methods of Teaching Social Studies in Elementary School	2 hrs
Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ 442	Student Teaching Elementary	8 hrs

Select two of the following:

Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs

OR other educational courses approved by the Dean of Education and Psychology

Secondary Teaching

Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
	A course in Special Methods of Teaching the Major Field	2 hrs
*Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 462	Student Teaching Secondary	8 hrs

Select one of the following:

Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs

OR other education courses approved by the Dean of Education and Psychology

**Educ 422 Reading Secondary 2 hrs

*Required of all secondary education majors unless a computer literacy course is offered in the teaching specialty department.

**May be taken after the first semester of the sophomore year.

May **not** be substituted for electives. Offered on the regular and the six week schedule.

Combination of Elementary and Secondary Teaching

For students majoring in art, music, foreign language, or physical education who desire certification at both the elementary and secondary levels, the following professional semester is recommended:

Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 402	Foundation of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ 464	Student Teaching, Combination of Secondary and Elementary Teaching in major field	8 hrs
Educ	Special Methods course in major field	2 hrs

Select one of the following:

Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs

OR other Education courses approved by the Dean of Education and Psychology

*A course in Human Development is required for certification for grades K-12. If Human Development is not taken, a student must have a course in Psy 100 General Psychology plus both Psy 301 Adolescent and Psy 300 Child Psychology.

Minor In Education

An academic minor has been created in teacher education for the B.A. and B.S. student who is thinking of pursuing a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the student with an adequate background in professional education for career decision making and as a foundation on which the remaining certification requirements can be added. For example, a math student may have an interest in teaching but does not want to divert time away from a math

major to complete the B.S.E. requirements. This student could plan an education minor in that program and complete the remainder of the certification requirements after graduation.

Minor in Education (Elementary and Secondary)

Educ 302	The Exceptional Child	2 hrs
Educ 320	or	
Educ 330	Structures of Teaching	2 hrs
Educ 321	or	
Educ 331	Microteaching	2 hrs
Educ 300	Clinical Experiences	2 hrs
Educ 370	Instructional Media	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues	2 hrs
Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 342	or	
Educ 422	Intro-Developmental Reading or Reading-Secondary School	2 hrs
Educ 412	Curriculum Development	2 hrs
		20 hrs

Education

FACULTY

Sandrin - Head, Banks, Cagle, Highland, Joyner, Leverett, Merryman, Ray, Steere, Wiley, Wuch.

Students who select education as a major field may choose to become qualified at either the elementary level, the secondary level or a combination of elementary and secondary (K-12).

Elementary majors must select an area of concentration totaling 21 hours in a designated curriculum area. The area of concentration may consist of a composite of courses in an area or it may consist of a structured series of courses that will lead to certification in grades 7-9. The following areas of concentration are available: art, computer science, early childhood education, English, health and physical education, mathematics, music, remedial reading, science, social studies, speech and theatre, or special education. For further information, an advisor should be consulted.

Students who choose to major in secondary education should refer to the section on secondary education which outlines

specific professional education requirements. Subject matter requirements for the specific major are listed under the appropriate department, i.e., requirements for a major in biology for the B.S. in education degree are listed in the biology department section of the catalog.

OBJECTIVES FOR ELEMENTARY EDUCATION

The Elementary Education Major

1. has a strong background in core curriculum and can use the knowledge and skills obtained in Core Curriculum as a basis for the teaching content in the school setting;
2. can identify the general stages of child development and how these relate to educational planning;
3. can determine students' present level of performance and use the assessment for educational planning;
4. can identify developmental and behavioral problems and can make appropriate referrals;
5. can apply learning theory, instructional design, and educational planning to classroom environments;
6. can organize and manage a classroom that permits enough freedom to encourage independent and critical thought, and one that provides enough security that a child may feel safe;
7. is able to develop a learning program based on clearly stated instructional objectives which are functional and is able to parallel these objectives with learning activities, relevant resources, and evaluations;
8. is able to match objectives and learning activities to individual needs and abilities of students;
9. can apply the new technology in education such as hardware and software, e.g., microcomputers, and can use them as learning activities to meet instructional goals and objectives;
10. can use a variety of teaching techniques in the classroom;
11. can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, values clarification, and mental and physical exceptionalities;

12. can use differentiated assessments to determine whether or not students' objectives are being met;
13. is able to apply classroom management techniques humanely and within the policies of the state and local school board;
14. recognizes the contributions of professional organizations which promote, advance, and improve the quality of education;
15. has a plan for personal professional growth and development which includes self evaluation;
16. advocates and practices sound professional ethics in and out of the school setting;
17. can utilize relevant educational research findings and information from the professional literature in designing an effective learning program for students;
18. can implement an instructional management system in a classroom setting;
19. can design appropriate instruction to meet a set of established competencies, e.g., Missouri Core Competencies.

BACHELOR OF SCIENCE WITH A MAJOR IN ELEMENTARY EDUCATION

Semester Hours

Core Curriculum Requirements		51
Education Requirements		
Math 120	Mathematics for Elementary Teachers II	3
Eng 325	Children's Literature	3
Art 220	Art Education	3
Mus 332	Music for Elementary School	3
Educ 302	The Exceptional Child	2
Psy 110	Psychology of Human Development	5
Psy 310	Educational Psychology	2
HPER 311	Physical Education for the Elementary School	2
Educ 311	Science in the Elementary School	2
Educ 312	Problems of Teaching Arithmetic in Elementary School	2
Educ 340	Language Arts	2
Educ 342	Intro. to Developmental Reading	3
Educ 343	Assessing and Personalizing Reading Instruction	2

Educ 470	Diagnostic and Remedial Reading	3
Educ 320	Structure of Teaching Elementary	2
Educ 321	Microteaching-Elementary	2
Educ 300	Clinical Experiences	2
Educ 401	The Use of Computer Software in the Classroom	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 322	Teaching Social Science Elementary School	2
Educ 370	Instructional Media	2
Electives in Education		4
(Select 2 from the following 4)		
(a) Educ 412	Individual Curriculum Development	2
(b) Educ 420	Introduction to Counseling	3
(c) Educ 423	Classroom Management	2
(d) Psy 412	Measurement and Evaluation	2
Educ 442	Student Teaching	8
Area of Concentration		21
		132-138

Suggested Order of Study

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ELEMENTARY EDUCATION

Freshman Year

1st Semester		Hours
Course		
Psy 110	Psychology of Human Development	5
CORE	[Eng 101 Composition]	3
CORE	[Math 111 Mathematics for Elementary Teachers I]	3
CORE	[Econ 180 American Economic System]	3
Psy 120	College Orientation	1
		15

2nd Semester

Math 120	Mathematics for Elementary Teachers II (Math 111)	3
CORE	[Eng 102 Composition]	3
CORE	[Comm 100 or 131]	3
CORE	[Hist 110 U.S. History 1492-1877]	3
CORE	[(Literature)]	3
CORE	[HPER 101 P. E. Activity]	1
		16

Sophomore Year

1st Semester		
Educ 302	Exceptional Child Psychology (Psy 110)	2
CORE	[Bio 101 Introduction to Biology]	4

School of Education and Psychology

CORE [Mus 110 Music Appreciation] 3
CORE [Hist 120 U.S. History 1877-Present] 3

Select one: 3
CORE [Art 110 Art Appreciation] 3
CORE [Mus 110 Music Appreciation] 3
CORE [TH 110 Theatre Appreciation] 3
CORE [PSc 120 Gov't: U.S., State, & Local] 3

2nd Semester

Psy 310 Educational Psychology (Psy 110) 2
CORE [Soc 110 or 152 Sociology] 3
CORE [HPER 370 School Health Education] 3
CORE [Phys 100 Fundamentals of Physical Science] 3
Art 220 Art Education 16

Junior Year

1st Semester
Mus 322 Music for Elementary School 3
HPER 311 P.E. for Elementary School 3
CORE [Geog 211 Regions & Nations] 3
Educ 340 Language Arts 2
Educ 342 Developmental Reading 3
Eng 325 Children's Literature 3

2nd Semester

Educ 312 Problems of Teaching Arithmetic 2
Educ 322 Teaching Social Science-Elementary School 2
Educ 343 Individual Reading Instruction 2
Supporting Area 3
JUNIOR BLOCK
Educ 300 Clinical Experiences 2
Educ 320 Structures 2
Educ 321 Microteaching 2
Educ 370 Instructional Media 2

Senior Year

1st Semester
Educ 311 Science in Elementary School 2
Educ 401 Computer Software in Education 2
Educ 470 Diagnostic & Remedial Reading 3
Supporting Area 8-11

2nd semester
Professional Semester 16

For additional information contact:
Dr. Jim Sandrin
Office: 237 Taylor Hall
Phone: 625-9308

Psychology

FACULTY

Volskay - Head, Babbitt, Griffin, Junkins, Murdock, Paige, Starkey

The psychology department offers three degrees: the bachelor of arts (B.A.), the bachelor of science (B.S.), and the bachelor of science in education with a major in psychology-special education (B.S.E.). The B.A. and B.S. degrees provide an excellent foundation for students who wish

to earn advanced graduate degrees in pursuit of a career in psychology. The BSE degree is offered in cooperation with the education department. Graduates of that program will be certified to teach special education in K-9 and to teach psychology at the secondary level. Some possible options with the B.S.E. are given following the description of that program below.

BACHELOR OF ARTS IN PSYCHOLOGY

Semester Hours

Core Curriculum Requirements (page 34) 48
Foreign Language 10
Psychology Requirements 40
Psy 110 Psychology of Human Development 5

OR
Psy 100 General Psychology and
Psy 300 Child Development (6)
Psy 320 Applied Statistics for the Behavioral Sciences* 3
Psy 325 Computers in the Behavioral Sciences 3
Psy 330 Experimental Psychology** 5
Psy 411 Psychology of Sensation and Perception 5

OR
Psy 442 Physiological Psychology 3
Psy 341 Social Psychology 3
OR
Psy 422 Theories of Personality 3
Psy 451 Learning and Memory 3
Psy 452 History and Systems of Psychology 3
Psy 480 Senior Seminar 2
Psy 481 Senior Thesis 2
Psychology Electives 9

Supporting Area 21
The Supporting Area requires at least 21 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology, or other area approved by the advisor and the department.

Electives (from Psychology or other) 6
125

*formerly numbered 311

**formerly numbered 312

BACHELOR OF SCIENCE IN PSYCHOLOGY

Semester Hours

Core Curriculum Requirements (page 34) 51

Psychology Requirements 40

Psy 110 Psychology of Human Development 5

OR

Psy 100 General Psychology and
Psy 300 Child Development (6)

Psy 320 Applied Statistics for the Behavioral Sciences* 3

Psy 325 Computers in the Behavioral Sciences 3

Psy 330 Experimental Psychology** 5

Psy 411 Psychology of Sensation and Perception

OR

Psy 442 Physiological Psychology 3

Psy 341 Social Psychology

OR

Psy 422 Theories of Personality 3

Psy 451 Learning and Memory 3

Psy 452 History and Systems of Psychology 3

Psy 480 Senior Seminar 2

Psy 481 Senior Thesis 2

Psychology Electives 9

Supporting Area 21

The Supporting Area requires at least 21 hours of one of the following areas: biology, chemistry, computer science, mathematics, physics, or other science area approved by the advisor and the department.

Additional hours of science 10
Electives (from psychology or other) 6
128

*formerly numbered 311

**formerly numbered 312

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PSYCHOLOGY-SPECIAL EDUCATION

Semester Hours

Core Curriculum Requirements (page 34) 51
Psychology Requirements 34

Psy 110 Psychology of Human Development 5

Psy 302 The Exceptional Child 2

Psy 310 Educational Psychology 2

Psy 320 Applied Statistics for the Behavioral Sciences* 3

Psy 325 Computers in the Behavioral Sciences 3

Psy 330 Experimental Psychology** 5

Psy 382 Introduction to Behavior Management 3

Psy 432 Abnormal Psychology 3

School of Education and Psychology

Psy 442 Physiological Psychology	
OR	
Psy 411 Psychology of Sensation and Perception	3
Psy 412 Measurement and Evaluation in Education and Psychology	2
Psy 451 Learning and Memory	3
Education Requirements	48
Educ 312 Problems of Teaching Arithmetic in Elementary Schools	2
Educ 324 Introduction to Special Education	3
Educ 330 Structure of Teaching Secondary	
OR	
Educ 320 Structure of Teaching Elementary	2
Educ 331 Microteaching	
OR	
Educ 321 Microteaching	2
Educ 342 Introduction to Developmental Reading	3
Educ 343 Assessing and Personalizing Reading Instruction	3
Educ 370 Introduction to Instructional Media	2
Educ 402 Foundations of Education	2
Educ 403 Methods of Teaching the Mentally Handicapped	
OR	
Educ 404 Methods of Teaching Children with Learning Disabilities	
OR	
Educ 405 Methods of Teaching Children with Behavioral Disorders	3
Educ 407 Diagnostic and Prescriptive Teaching	3
Educ 420 Introduction to Counseling	2
Educ 430 Language Development of Exceptional Children	3
Educ 432 Critical Issues in Education	2
Educ 444 Student Teaching-Special Education	8
Educ 446 Practicum in Special Education	3
Educ 470 Diagnostic and Remedial Reading	2
Educ 474 Educational-Psychological Testing in Special Education	3
	133
*formerly numbered 311	

**formerly numbered 312

This program leads to certification in K-9 in one of three areas—teaching the learning disabled, behavior disordered, or mentally handicapped. If the student wishes to be certified in all three areas, the three methods courses—Educ 403, 404, and 405 from the above program must be taken. To be certified K-12 either the practicum (Educ 446) or part of the student teaching (Educ 444) must be done at the high school level.

Minor in Psychology

CORE [Psy 110 Psychology]	5
OR	
Psy 100 General Psychology and Psy 300 Child Development	(6)
Psy 320 Applied Statistics for the Behavior Sciences*	3
Psy 330 Experimental Psychology**	5
At least one 3 credit hour 400 level psychology course	3
Psychology electives	5
	21

*formerly numbered 311

**formerly numbered 312

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2000

Psychology Major

Freshman Year

1st Semester		Hours
Course		
CORE	[Psy 110 Psychology of Human Development]	5
CORE	[Eng 101 Composition]	3
CORE	[Math 110, 130, or 131]	3
Psy 120	College Orientation	1
CORE	[Core Electives]	3
		15

2nd Semester

CORE	[Eng 102 Composition (Eng 101)]	3
CORE	[Suggested Core Electives]	9
Biology		4
		16

Sophomore Year

1st Semester		Hours
Psy 320	Applied Statistics (Psy 100 or 110)	3
CORE	[Phys 100]	5
CORE	[Suggested Core Electives]	6
Supporting Area		3
		17

2nd Semester

**Psy 325	Computers in Behavioral Sciences (Psy 320)	3
CORE	[Suggested Core Electives]	9
Supporting Area		3
		15

Junior Year

1st Semester		Hours
Psy 330	Experimental Psych (Psy 325)	5
	Foreign Language 101	5
Supporting Area		3
CORE	[Core Electives]	3
		16

2nd Semester

**Psy 411	Sensation & Perception (Psy 300)	
OR		
**Psy 422	Theories of Personality (Psy 110 or 100)	3
CORE	[Core Electives]	3
**	Foreign Language 102	5
Supporting Area		3
**Psy 451	Learning & Memory (Psy 330)	3
		17

Senior Year

1st Semester		Hours
*Psy 442	Physiological Psy (Psy 330)	
OR		
Psy 341	Social Psychology (Psy 320)	3
*Psy 452	History & Systems (Psy 330)	3
Psy 480	Senior Seminar	2
	Supporting Area	3
	Elective	3
	Psy Elective	3
		17

2nd Semester

**Psy 481	Senior Thesis	2
	Psychology Elective	6
	Supporting Area	6
	Elective	3

*Offered fall semester only

**Offered spring semester only

() Prerequisite

BACHELOR OF SCIENCE

Major Code 2000

Psychology Major

Freshman Year

1st Semester		Hours
Course		
CORE	[Psy 110 Psychology of Human Development]	5
CORE	[Eng 101 Composition]	3
CORE	[Math 110, 130, or 131]	3
Psy 120	College Orientation	1
CORE	[Suggested Core Electives]	3
		15

2nd Semester

CORE	[Eng 102 Composition (Eng 101)]	
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School of Education and Psychology

CORE [Bio 101 General Biology]
CORE [Suggested Core Electives]

Sophomore Year

1st Semester

Psy 320 Applied Statistics (Psy 100 or 110)

CORE [Phys 100, 151 or Chem 101 (Math 131 or 130)]

CORE [Suggested Core Electives] Supporting Area

2nd Semester

**Psy 325 Computers in Behavioral Sciences (Psy 320)

CORE [Suggested Core Electives] Supporting Area

Junior Year

1st Semester

Psy 330 Experimental Psychology (Psy 325)

Science Supporting Area Elective

2nd Semester

**Psy 411 Sensation & Perception (Psy 330)

OR

**Psy 422 Theories of Personality (Psy 110 or 100)

**Psy 451 Learning & Memory (Psy 330) Supporting Area

CORE [Suggested Core Electives] Science

Senior Year

1st Semester

*Psy 442 Physiological Psychology (Psy 330)

OR

*Psy 341 Social Psychology (Psy 320)

*Psy 452 History & Systems (Psy 330)

Psy Elective

Psy 480 Senior Seminar

Supporting Area

Elective

2nd Semester

Psy Elective

Psy 481 Senior Thesis

Elective

Supporting Area

*Offered fall semester only

**Offered spring semester only

() Prerequisite

Other Requirements

4 Ten hours are required from math, computer science, chemistry, biology, and/or physics, in addition to all other requirements. These replace the foreign language requirement.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0846

Psychology-Special Education Major

Freshman Year

1st Semester

Course

3 CORE [Psy 110 Human Growth & Development]

17 CORE [Eng 101 Composition]

CORE [Math 110, 130, or 131]

3 Psy 120 College Orientation

CORE [Suggested Core Electives]

2nd Semester

CORE [Eng 102 Composition (Eng 101)]

CORE [Suggested Core Electives]

Sophomore Year

1st Semester

3 CORE [HPER 370 School Health Statistics (Psy 110 or 100 & Math 130 or 131)]

16 Psy 310 Educational Psychology

Psy 325 Computers in the Behavioral Sciences

CORE [Suggested Core Electives]

2nd Semester

3 Psy 382 Intro to Behavior Management

5 Psy 330 Experimental Psychology

2 Psy 302 Exceptional Child

17 CORE

Junior Year

1st Semester

Educ 342 Intro to Developmental Reading

3 Educ 330 Structures or Educ 320

2 Educ 331 Microteaching or Educ 321

3 Educ 324 Introduction to Special

3 Education

2 Educ 403 Methods of Teaching the

3 Mentally Handicapped

3 OR

17 Educ 405 Methods of Teaching Children

3 with Behavior Disorders

2 Educ 370 Instructional Media

2 Educ 312 Problems in Teaching

17 Arithmetic

2nd Semester

**Psy 432 Abnormal Psychology (7 hrs. Psy)

**Educ 343 Assessing & Personalizing Reading Instruction

Educ 474 Educational-Psychological Testing

**Psy 451 Learning & Memory 3
CORE [Suggested Core Electives] 3-5
15-17

Senior Year

1st Semester

Educ 446 Practicum in Special Education 3

CORE [Suggested Core Electives] 3

Educ 420 Introduction to Counseling 2

Psy 411 Sensation and Perception

OR

Psy 442 Physiological Psychology 3

Educ 430 Language Development for

Exceptional Children 3

Educ 470 Diagnostic and Remedial

Reading 2

16

2nd Semester

Psy 412 Measurement & Evaluation 2

Educ 402 Foundations of Education 2

Educ 432 Critical Issues 2

**Educ 407 Diagnostic Prescriptive

Teaching 3

Educ 444 Student Teaching 8

17

*Offered fall semester only

**Offered spring semester only

() Prerequisite

For additional information contact:

Dr. J. Truman Volskay

Office: 209 Taylor Hall

Phone: 625-9306

Health, Physical Education and Recreation

FACULTY

Oldham - Head, Beard, Cade, Conklin, Cooke, Evans, Frazier, Gabriel, Lampe, Lantz, Lipira, Rutledge, Scheible, Traywick, Turner

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level, or a combination of both elementary and secondary levels. Students planning to major in this field should refer to page 112 of this catalog where the teacher education program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-8 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The student can: (1) develop units of instruction in physical education that are appropriate to grades K-12, (2) demonstrate competency in teaching physical education at the various grade levels, (3) develop measurement and evaluation techniques for physical education activities in grades K-12, (4) identify characteristics which make one group different from another and effectively plan for the needs of individuals who represent this cultural diversity, (5) develop a unit of instruction appropriate for adapted physical education activities for exceptional children, (6) identify high risk areas of the physical education program and incorporate sound principles related to safety and supervision in planning.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION K-12 One Teaching Field

Semester Hours

Core Curriculum Requirements (page 34)	48
Physical Education Requirements	51
Bio 306 Human Physiology & Anatomy*	5
HPER 251 Fundamentals of Physical Education Activities I*	3
HPER 252 Fundamentals of Physical Education Activities II*	3
HPER 255 Theory and Practice of Dance and Exercise*	2
HPER 310 The Elementary School Physical Education Program*	3
HPER 312 Teaching Elementary School Physical Education*	3
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 332 Rhythmic Form and Analysis*	2
HPER 335 History and Philosophy of Physical Education*	2
HPER 340 Motor Learning in Physical Education*	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education*	2
HPER 365 Socio-Psychological	

Aspects of Physical Education*	2
HPER 370 School Health Education (Elem)*	3
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 470 Administration of Physical Education*	2
SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2
Education Certification Requirements (page 114)	30
	129

*See Prerequisites

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION 7-12 Two Teaching Fields

Semester Hours

Core Curriculum Requirements (page 34)	48
Physical Education Requirements	37
Bio 306 Human Physiology & Anatomy*	5
HPER 251 Fundamentals of Physical Education Activities I*	3
HPER 252 Fundamentals of Physical Education Activities II*	3
HPER 255 Theory and Practice of Dance and Exercise*	2
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 335 History and Philosophy of Physical Education*	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education	2
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 470 Administration of Physical Education*	2
SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:	
HPER 350 Theory of Basketball*	2

HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2
Education Certification Requirements (page 114)	30
Unrestricted Electives or Second Teaching Field	13
	128

*See Prerequisites

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION K-8 Two Teaching Fields

Semester Hours

Core Curriculum Requirements (page 34)	51
Physical Education Requirements	33
Bio 306 Human Physiology & Anatomy*	5
HPER 310 The Elementary School Physical Education Program	3
HPER 312 Teaching Elementary School Physical Education*	3
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 332 Rhythmic Form & Analysis*	2
HPER 335 History and Philosophy of Physical Education*	2
HPER 340 Motor Learning in Physical Education*	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education*	2
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 370 School Health Education (Elem)*	3
HPER 431 Physiology of Exercise*	2
Education Certification Requirements (page 114)	30
Unrestricted Elective or Second Teaching Field	14
	128

*See Prerequisites

School of Education and Psychology

Minor in Physical Education (non-teaching minor)

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 335 History and Philosophy of Physical Education*	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
SELECT ONE OF THE FOLLOWING:	
HPER 251 Fundamentals of Physical Education Activities I*	3
HPER 252 Fundamentals of Physical Education Activities II*	3
HPER 321 Theory and Analysis of Team Sports	3
	20

*See Prerequisites

Minor in Coaching

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 150 Rules and Officiating of Team Sports	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 450 Prevention and Care of Injuries*	3
SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track and Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2
	19

*See Prerequisites

Minor in Athletic Training

	Semester Hours
Bio 306 Human Physiology and Anatomy**	5
HPER 220 First Aid	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 431 Physiology of Exercise*	2

HPER 450 Prevention and Care of Injuries*	3
HPER 451 Advanced Athletic Training*	2
SELECT ONE OF THE FOLLOWING:	
Rad 111 Medical Terminology	3
DH 310 Nutrition	2
	19-20

*See Prerequisites

Health Education Certification for Physical Education majors and Biology majors

	Semester Hours
Soc 121 Family	3
HPER 160 Personal Health	2
Bio 306 Human Physiology and Anatomy*	5
Psy 221 Psychology of Personal Adjustment	3
HPER 370 School Health Education (Sec)*	3
DH 310 Nutrition	2
Chem 100 Introductory Chemistry* OR	
Bio 211 Microbiology*	5
	23

*See Prerequisites

Suggested Orders of Study

BACHELOR OF SCIENCE IN EDUCATION Major Code 0835 Physical Education Major K-12

Freshman Year

1st Semester	Course	Hours
	CORE [Eng 101 Composition]	3
	Psy 110 Psy of Human Development	5
	CORE [Core Electives]	9
	Psy 120 College Orientation	1
2nd Semester		
	CORE [Eng 102 Composition (Eng 101)]	3
	CORE [Bio 121 General Zoology]	4
	CORE	9
		16

Sophomore Year

1st Semester	Course	Hours
	HPER 251 Fund of PE Activities I (30 Hrs)	3
	CORE [Phys 100 Fund of Physical Sci]	5
	CORE [Core Electives]	9
		17
2nd Semester		
	HPER 252 Fund of PE Activities II (30 Hrs)	3

HPER 255 Theory of Dance (30 Hrs)	2
HPER 335 Hist & Phil PE (HPER 251)	2
Bio 306 Human Phy & Anat (Bio 121)	5
Psy 310 Educ Psy (Psy 110)	2
CORE [Core Electives]	3
	17

Junior Year

1st Semester	Course	Hours
	HPER 310 Elementary School PE Prog (HPER 252)	3
	HPER 321 Team Sports (HPER 252)	3
	HPER 332 Rhy Form and Analysis (HPER 252)	2
	HPER 340 Motor Learning (HPER 310 or 311)	3
	HPER 370 School Health-Elem (4 Hrs Bio)	3
	Psy 302 Excep Child (Psy 110)	2
	Coaching Theory Course	1-2
		17-18

2nd Semester

HPER 312 Teaching Elementary School PE (HPER 310)	3
HPER 342 Kinesiology (Bio 306)	3
HPER 345 Tests & Meas. in P.E. (Psy 310)	2
Educ 300 Clinical Experience	2
Educ 330 Structure of Teaching (PSY 110)	2
Educ 331 Microteaching	2
Educ 370 Introduction to Instructional Media	2
Coaching Theory Course	1-2
	17-18

Senior Year

1st Semester	Course	Hours
	HPER 365 Socio-Psy Aspects of P.E. (HPER 252)	2
	HPER 431 Physiology of Exercise (Bio 306)	2
	HPER 450 Care & Prevention of Injuries (HPER 342)	3
	HPER 470 Adm of PE (20 Hrs HPER)	2
	Educ 422 Reading Secondary School Coaching Theory Courses	1-2
		15-16
ELECTIVES		

2nd Semester

Educ 338 Teaching Health & PE	2
Educ 401 Computer Software	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues in Education	2
Educ 464 Student Teaching	8
	16

BACHELOR OF SCIENCE IN EDUCATION Major Code 0835 Physical Education Major 7-12

Freshman Year

1st Semester	Course	Hours
	CORE [Eng 101 Composition]	3
	Psy 110 Psy of Human Development	5
	CORE [Core Electives]	9
	Psy 120 College Orientation	1
		18

School of Education and Psychology

2nd Semester		
CORE	[Eng 102 Composition (Eng 101)]	3
CORE	[Bio 121 Gen Zoology]	4
CORE	[Core Electives]	9
16		

Sophomore Year

1st Semester		
HPER 251	Fundamentals of PE Act. I (30 Hrs)	3
CORE	[PSY 100 Fundamental of Physical Sci.]	5
CORE	[Core Electives]	9
17		

2nd Semester		
HPER 252	Fundamentals of PE Act. II (30 Hrs)	3
HPER 255	Theory of Dance (30 Hrs)	2
HPER 335	History & Philosophy of PE (HPER 251)	2
Bio 306	Human Phy & Anat (Bio 121)	5
Psy 310	Educ Psy (Psy 110)	2
CORE	[Core Electives]	3
17		

Junior Year

1st Semester		
HPER 321	Team Sports (HPER 252)	3
Educ 300	Clinical Experience	2
Educ 330	Struct of Teaching (Psy 110)	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
	Coaching Theory Course	1-2
CORE	[Core Electives]	3
15-16		

2nd Semester		
HPER 342	Kinesiology (Bio 306)	3
HPER 345	Tests & Measurements (Psy 310)	2
Psy 302	Except Child (Psy 110)	2
	Coaching Theory Course	2-4
ELECTIVES		6
15-17		

Senior Year

1st Semester		
HPER 365	Socio-Psy Aspects PE (HPER 252)	2
HPER 431	Physiology of Ex. (Bio 306)	2
HPER 450	Prevention & Care of Injuries (HPER 342)	3
HPER 470	Adm of Physical Education (20 Hrs HPER)	2
Educ 422	Reading Secondary School	2
ELECTIVES		3-6
14-17		

2nd Semester		
Educ 338	Teaching Health & PE	2
Educ 401	Computer Software	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2

Educ 462	Student Teaching	8
16		
For additional information contact:		
Dr. Max Oldham		
Office: 214 PE		
Phone: 625-9316		

SCHOOL OF EDUCATION AND PSYCHOLOGY COURSE DESCRIPTIONS

EDUCATION (Educ)

Techniques of Reading (F, S)
13.1010-010 2 hrs. cr.
Designed to improve and enhance reading skills. Vocabulary, comprehension and rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment and flexibility.

Clinical Experiences (F, S)
13.0101-300 2 hrs. cr.
Students are assigned to elementary or secondary schools for 56 clock hours. In addition, the students will have eight hours of class time on campus. The clinical begins on the first regularly scheduled class and meets by arrangement the remainder of the semester. Students have an opportunity to participate, observe, and tutor while working with a certified teacher. (Clinical is taken concurrently with Educ 320 or 330, Educ 321 or 331, and Educ 370—The Junior Block.)

The Exceptional Child (F, S)
13.1004-302 2 hrs. cr.
A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Science in the Elementary School (F, S)
13.1316-311 2 hrs. cr.
Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery, and inquiry lessons, and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans, learning kits, and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 Microteaching. Educ 321 may be taken concurrently with the course.

Problems of Teaching Arithmetic in Elementary Schools
13.1311-312 2 hrs. cr.
(See Math 312) (F, S)
Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

Introduction to Early Childhood Education (F) (Demand)
13.1204-316 3 hrs. cr.
A survey course designed to acquaint the prospective early childhood teacher with an overview of early childhood programs, past, present, and future; and with research-based and supported theories of development, with program design and implementation.

Early Childhood Education Curriculum and Materials (S) (Demand)
13.1204-319 3 hrs. cr.
Provides a background in curriculum and materials for the young child. Students will observe children involved in early childhood programs, plan and conduct a lesson with children in each of the major curriculum areas, under supervision, and construct various teaching materials. Prerequisite: Psy 310 and Educ 316.

Structure of Teaching Elementary (F, S)
13.1202-320 2 hrs. cr.
Strategies relating to teaching in the elementary school. The acquisition of instructional skills and strategies related to the teacher-learner situation. Classroom organization and management, instructional innovations, instructional management system, performance based teacher evaluation (PBTE), and both verbal and non-verbal interaction skills. Course is team taught. Enrollment in Educ 321 Microteaching must be concurrent. Prerequisites: Psy 110 (Educ 300, 320, 321, and 370 are taken concurrently).

Microteaching (F, S)
13.1202-321 2 hrs. cr.
A required part of Educ 320 to be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading)

Teaching Social Studies in Elementary School (F, S)
13.1318-322 2 hrs. cr.
An introduction to the instructional materials and methods of teaching social studies in the elementary school.

Introduction to Special Education (F, S)
13.1001-324 3 hrs. cr.
An introduction of three areas of special education (LD, MH, BD) but not intended as a methods course for any specific disability. Survey of

School of Education and Psychology

research related to the areas of LD, MH, and BD. Prerequisites: Educ 302, Psy 110.

Structure of Teaching Secondary

13.1205-330 2 hrs. cr.
Instructional skills, strategies and techniques. Development of the secondary school, classroom organization and management, instructional innovations, instructional management system, performance based teacher education (PBTE) and both verbal and non-verbal interaction. Course is team taught. Enrollment in Educ 331 Microteaching must be concurrent. Prerequisites: Psy 110 or Psy 301 (Educ 300, 330, 331, 370 are taken concurrently).

Microteaching (F, S)

13.1205-331 2 hrs. cr.
A required part of Educ 330 and must be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via videotape recordings. Basic concern is with demonstration of effective teaching skills. (Performance based, credit-non-credit grading)

Teaching English and Language Arts in Secondary School (S)

13.1305-332 2 hrs. cr.
An introduction to the instructional materials and methods of teaching English, speech, and foreign language. Part of the Professional Semester.

Teaching Science in Secondary School (S)

13.1316-333 2 hrs. cr.
An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Teaching Social Science in Secondary School (S)

13.1317-334 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching social science. Part of the Professional Semester.

Teaching Music in Secondary School (S)

13.1312-335 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching music. Part of the Professional Semester.

Teaching Business in Secondary School (S)

13.1303-336 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching business. Part of the Professional Semester.

Teaching Art in Secondary School (F, S)

13.1314-337 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching art. Part of the Professional Semester.

Teaching Health and Physical Education in Secondary School (F, S)

13.1314-338 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching physical education and health. Part of the Professional Semester.

Teaching Mathematics in Secondary School (S)

13.1311-339 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching mathematics. Part of the Professional Semester.

Language Arts (F, S)

13.1202-340 2 hrs. cr.
Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

Teaching Industrial Arts in Secondary School (F, S)

13.1309-341 2 hrs. cr.
An introduction to curriculum, methods, and materials for teaching the various industrial arts. Part of the Professional Semester.

Introduction to Developmental Reading (F, S)

13.1205-342 3 hrs. cr.
First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children.

Assessing and Personalizing Reading Instruction (F, S)

13.1205-343 2 hrs. cr.
Preventive and/or corrective methods and devices for teaching reading in the regular classroom. Emphasis on techniques for individualization and various types of grouping procedures. Prerequisite: Educ 342

Teaching Speech and Theatre in Secondary School (S)

13.1205-344 2 hrs. cr.
Techniques, methods, and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.

Teaching Foreign Language in Secondary Schools (S)

13.1205-345 2 hrs. cr.
An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

Teaching Computer Science in Secondary School (S)

13.1314-346 2 hrs. cr.
An introduction to instructional planning, materials selection, and methods of teaching computer science/data processing subjects in the secondary school. Part of Professional Semester.

Corrective Reading Instruction For Classroom Teachers

13.1315-350 2 hrs. cr.
A course designed to acquaint the preservice teacher, seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records, and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.

Introduction to Instructional Media (F, S)

13.0301-370 2 hrs. cr.
Preparation and use of the various audio-visual materials and devices, with emphasis on preparation. Enrollment is limited to education majors. Performance based, credit-non-credit grading. Taken concurrently with 320/330. Students are urged to enroll in the section designated for their teaching area, either elementary or secondary.

Practicum in Early Childhood Education (F, S)

13.1204-375 2 hrs. cr.
Supervised participation in teaching on the early childhood level at the MSSC Child Development Center on campus. Experiences will include designing and conducting developmentally appropriate lesson plans, setting up learning centers in the classroom, and evaluating the development of young children.

Use of Computer Software in the Classroom (F, S)

13.0301-401 2 hrs. cr.
Use of microcomputers, with emphasis on evaluation, selection, and uses of educational software.

Foundations of Education (F, S)

13.0901-402 2-3 hrs. cr.
Historical, philosophical, and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice, and application of the teaching-learning theory and practice.

Methods of Teaching the Mentally Handicapped (F)

13.1006-403 3 hrs. cr.
Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302.

Methods of Teaching Children With Learning Disabilities (S)

13.1006-404 3 hrs. cr.
Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies, and

materials appropriate for use with learning disabled students. Prerequisite: Educ 302.

Methods of Teaching Children With Behavioral Disorders (F)

13.1005-405 3 hrs. cr.
Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302.

Diagnostic and Prescriptive Teaching (S)

13.0301-407 3 hrs. cr.
Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Appropriate for both regular and special education majors.

Individualized Curriculum Development (F, S)

13.0301-412 2-3 hrs. cr.
Designed for elementary and secondary education majors. Instructional programming for the individual student, strategies for individualizing and mastery learning, grouping for instruction, organizing a variety of learning activities and materials, instructional evaluation, home-school-community relations, and comparing alternative educational systems. Prerequisite: Admission to teacher education.

Introduction to Counseling (F, S)

13.1101-420 3 hrs. cr.
Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

Teaching Reading in Secondary Schools (F, S)

13.1315-422 2 hrs. cr.
Familiarize prospective secondary teachers with research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develop an awareness of the role of reading to content area classroom instruction. Acquaint prospective secondary teachers with strategies and materials utilized in diagnostic/prescriptive teaching.

Classroom Management (F, S)

13.1299-423 2 hrs. cr.
Concepts, skills, and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs, and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy, and other management techniques.

Language Development of Exceptional Children (F)

13.1012-430 3 hrs. cr.
Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition, and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Critical Issues in Education (F, S)

13.0401-432 2-3 hrs. cr.
Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments, and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents, and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.

Utilizing Family and Community Resources for the Young Child (S)

13.1204-433 2 hrs. cr.
Designed to acquaint the prospective teacher of young children with the resource persons, funding agencies, medical services, special help agencies, and job opportunities available to them in the community.

Materials and Methods of Individualizing Instruction (S)

13.0301-435 3 hrs. cr.
Concepts, methods, and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 320.

Student Teaching-Elementary (F, S)

13.1202-442 8 hrs. cr.
Supervised participation in teaching on the elementary level in an off-campus school. Prerequisites: 100 semester hours with a GPA of 2.5, completion of the junior block, and admission to the teacher education program. Course assignments include full-time supervised teaching for one-half semester. Students whose last name begins with the letters A-L should plan to enroll in first semester; M-Z in second semester. Conferences scheduled as needed. Specific assignment made by the director of student teaching. Arrangements for assignment made in the semester preceding the actual student teaching block.

Student Teaching-Special Education (F, S)

13.1202-444 4-8 hrs. cr.
Teaching the handicapped child shall immediately follow Educ 442 or 462 or 464. Prerequisite: See Educ 442. Course assignment consists of a minimum of five hours a week of student

teaching for each one hour of credit per one-half semester. Conferences scheduled as needed.

Practicum in Special Education (F, S)

13.1202-446 3 hrs. cr.
Clinical experience in special education settings with one of three exceptional populations; learning disabled (LD), mildly mentally handicapped (MH), or behaviorally/emotionally disordered (BD) learners. A three credit practicum experience will be needed in each area of certification. Includes both time in special education classes and on-campus seminar sessions. Prerequisites: Educ 324 and 3 credits of special education methods course.

Student Teaching-Secondary (F, S)

13.1205-462 4-8 hrs. cr.
Supervised participation in teaching on the secondary level in an off-campus school. Prerequisite: Completion of the junior block, admission to teacher education, and a minimum of 100 semester hours with a GPA of 2.5. Assignment consists of full-time teaching for one-half semester with professional courses to be taken during the other half of semester. Students whose last name begins with the letters A-L should plan to enroll in the first semester; M-Z in second semester. Conferences scheduled as needed. Specific assignment made by the director of student teaching.

Student Teaching-EL-SEC (K-12) (F, S)

13.1205-464 8 hrs. cr.
Supervised participation in teaching on the secondary and elementary levels in an off-campus school. For students in specialized areas such as art, music, psychology-special education, and physical education who are preparing to be certified for teaching their specialty at both levels. Prerequisite: See Educ 442.

Diagnostic and Remedial Reading (F, S)

13.1315-470 3 hrs. cr.
Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials, and management being stressed. Prerequisites: Educ 342, Educ 343.

Practicum in Diagnosis of Reading Difficulties (F)

13.1205-471 3 hrs. cr.
Practice of administering, interpreting, and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, and Educ 474 or Psy 471.

Practicum in Remediation of Reading Difficulties (S)

13.1315-472 3 hrs. cr.
Practice of using and reporting results of remedial methods in a case study of reading difficulties.

School of Education and Psychology

ties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educational-Psychological Testing in Special Education (S)

13.0604-474 3 hrs. cr.
Comprehensive study of the various psycho-educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence, and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

Seminar in Problems of Education (Demand)

13.9999-498 1-3 hrs. cr.
A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

Independent Study (F, S)

13.9999-499 1-3 hrs. cr.
Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field and approval of advisor and department head.

*Students who are elementary education majors but who are certifying in special education must take 4 hrs. of student teaching in the regular elementary classroom, i.e. Educ 442, and 4 hrs. of student teaching in the special classroom, i.e. Educ 444.

*All education majors must take 8 hrs. of student teaching.

PSYCHOLOGY (Psy)

General Psychology (F, S)

42.0101-100 3 hrs. cr.
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement; however, education majors should substitute Psy 110. No credit if Psy 110 has been taken.

General Psychology-Honors (F)

42.0101-100 3 hrs. cr.
Basically the same topics as General Psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor. No credit if Psy 110 has been completed.

Self-Awareness and Career Planning

42.0601-105 1 hr. cr.
Materials and methods to help students investigate their present life styles including concrete

methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psychology of Human Development (F, S)

42.0701-110 5 hrs. cr.
Introductory course stressing basic psychology mechanisms underlying human behavior and mental processes, with special emphasis on the developmental course of these mechanisms. Fulfills the behavioral and social sciences Core Curriculum requirement and is recommended for psychology and education majors. No credit if Psy 100 has been completed.

College Orientation (F, S)

42.9999-120 1 hr. cr.
A requirement for all incoming freshmen, College Orientation is designed to provide a small group setting for open communication between students in an informal situation. The content focuses on practical knowledge necessary for academic survival, advisor assignment, and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psychology of Personal Adjustment (F)

42.9999-221 3 hrs. cr.
Selected principles of adjustment in psychology, therapeutic approaches to improving adjustment, and research being conducted in the area. Enables the student to be more assertive and personally satisfied.

Special Topics in Psychology (Demand)

42.9999-298 1-3 hrs. cr.
Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Child Development (F, S)

42.0701-300 3 hrs. cr.
Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

Adolescent Psychology (F, S)

42.0701-301 3 hrs. cr.
Development of the attitudes, interests, problems, and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

The Exceptional Child (F, S)

13.1001-302 2 hrs. cr.
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher.

Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Educational Psychology (F, S)

13.0801-310 2-3 hrs. cr.
Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning, and the environmental influences of behavior. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Applied Statistics for the Behavioral and Natural Sciences (F, S)

42.1501-320 3 hrs. cr.
Descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 or Psy 110 and Math 110, 130, or 131.

Computers in the Behavioral Sciences (S)

42.1301-325 3 hrs. cr.
Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection, and report generation. Prerequisite: Psy 320.

Experimental Psychology (F, S)

42.0801-330 5 hrs. cr.
Research process as a foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.

Social Psychology (F)

42.1601-341 3 hrs. cr.
Social behavior of the individual, interests and tendencies that grow out of the community life in terms of inter-group and inter-personal relationships. Prerequisite: Psy 320 or consent of instructor.

Introduction to Behavior Management (S)

42.9999-382 3 hrs. cr.
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 110 or Psy 100.

Psychology of Sensation and Perception (S)

42.0801-411 3 hrs. cr.
Exploration of the nature of perception through an examination of the action of the various sensory systems, such as vision and audition. Prerequisite: Psy 110 or 100. At least one course in biology is strongly recommended.

Measurement and Evaluation in Education and Psychology (F, S)

42.1301-412 2-3 hrs. cr.
Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

Theories of Personality (S)

42.1001-422 3 hrs. cr.
Major contemporary theories of personality, including relevant validation research and overall evaluation of the application of each theory. Prerequisite: Psy 100 or Psy 110 and consent of instructor.

Abnormal Psychology (S)

42.9999-432 3 hrs. cr.
Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders." Prerequisite: 7 hrs. of psychology or permission of instructor.

Clinical Psychology (F)

42.0201-435 3 hrs. cr.
Survey which includes history, current methods, critical issues, evaluation, and predictions about future developments. Prerequisites: Senior standing or at least 15 hrs. of psychology.

Physiological Psychology (F)

42.1101-442 3 hrs. cr.
Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of the following behaviors: movement, sleep, homeostasis, sexual behavior, emotion, learning, language, and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100 or Psy 110. At least one course in biology is strongly recommended.

Learning, Memory, and Cognition (S)

42.0301-451 3 hrs. cr.
Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence, and psychology-law. Prerequisite: Psy 330.

History and Systems of Psychology (F)

42.9999-452 3 hrs. cr.
Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.

Individual Testing (F)

42.1301-471 3 hrs. cr.
Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the department head.

Educational-Psychological Testing (S)

42.1301-474 3 hrs. cr.
Psycho-educational assessment techniques, including educational, intellectual, and psychomotor. Emphasis on translating assessment data to remedial programs.

Senior Seminar (F)

42.9999-480 2 hrs. cr.
For senior psychology majors. Information and experiences helpful in making decisions about, and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment. Students become familiar with the professional interests and activities of the psychology department faculty in preparation for selecting senior thesis topics.

Senior Thesis (S)

42.9999-481 2 hr. cr.
Developing skills in reviewing and critically evaluating the professional literature of psychology and using these skills in producing a senior thesis. Prerequisite: Senior Seminar.

Seminar in Psychology (Demand)

42.9999-498 1-3 hrs. cr.
Specialized knowledge and/or current research in psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked "(H)" in the class schedule and are intended for honors students. Other students may enroll in the honors seminars with consent of instructor.

Independent Study (Demand)

42.9999-499 1-3 hrs. cr.
Course structured by advisor with approval of department head. Prerequisite: Advanced standing in the major field. Registration must be approved by advisor and department head.

HEALTH, PHYSICAL EDUCATION, AND RECREATION (HPER)

Individual Physical Education (F)

13.1314-100 1 hr. cr.
Adapted physical activity based upon needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course.

Introduction to Physical Activities (F, S)

13.1314-101 1 hr. cr.
Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week.

Lifetime Wellness (F, S)

13.1314-103 2 hrs. cr.
The course provides contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.

Rules and Officiating of Team Sports (F, S)

13.1314-150 3 hrs. cr.
Knowledge and skills for officiating basketball, volleyball, softball, baseball, and football; officiating laboratory required in some areas. Open to all students.

Personal Health (F)

13.1307-160 2 hrs. cr.
Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene, and the cause and prevention of common diseases. Not recommended for elementary education majors.

First Aid (S)

13.1304-220 2 hrs. cr.
Designed to complete the standard course of the American Red Cross in First Aid.

Fundamentals of Physical Education Activities I (F)

13.1314-251 3 hrs. cr.
Study of the skills and understanding of selected activities: games, sports, and individual activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

Fundamentals of Physical Education Activities II (S)

13.1314-252 3 hrs. cr.
Study of the skills and understanding of selected activities: sports, gymnastics, and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

Theory and Practice of Dance and Exercise

13.1314-255 2 hrs. cr.
Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises, and choreographing rhythmic routines are included. Prerequisite: 30 hrs.

School of Education and Psychology

The Elementary School Physical Education Program (F)

13.1314-310 3 hrs. cr.
Procedures and techniques for planning the curriculum for elementary school physical education. Prerequisite: HPER 252, physical education majors only.

Physical Education for the Elementary School (F, S)

13.1314-311 2 hrs. cr.
Methods and materials needed for directing games, skills, rhythm, and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.

Teaching Elementary School Physical Education (S)

13.1314-312 3 hrs. cr.
Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 physical education majors only.

Theory and Analysis of Selected Team Sports (F)

13.1314-321 3 hrs. cr.
Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

Internship in Physical Therapy Procedures (F, S)

13.1314-325 1-8 hrs. cr.
Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing, and approval of departmental committee.

Rhythmic Form and Analysis (F)

13.1314-332 2 hrs. cr.
Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: HPER 252.

History and Philosophy of Physical Education (S)

13.1314-335 2 hrs. cr.
Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

Motor Learning in Physical Education (F)

13.1314-340 2 hrs. cr.
Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social, and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

Kinesiological Approach to Movement (S)

13.1314-342 3 hrs. cr.
A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.

Tests and Measurements in Physical Education (S)

13.1314-345 2 hrs. cr.
Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.

Theory of Basketball (S)

13.1314-350 2 hrs. cr.
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: 60 hrs.

Theory of Football (F)

13.1314-351 2 hrs. cr.
Attention to team play, systems of offense and defense, field strategy, discussion of rules, training, and equipment. Prerequisite: 60 hrs.

Theory of Track and Field (S)

13.1314-352 2 hrs. cr.
Organization and administration of meets, coaching, physical conditioning, and training for each event in track and field programs. Prerequisite: 60 hrs.

Theory of Coaching Soccer

13.1314-353 1 hr. cr.
Organization and management of soccer competition. Systems of offense and defense, rules, strategy, and fundamentals of soccer are studied. Prerequisite: 60 hrs.

Theory of Coaching Volleyball

13.1314-354 1 hr. cr.
Organization and management of volleyball competition. Offensive and defensive systems, rules, strategy, drills, and fundamentals are studied. Prerequisite: 60 hrs.

Theory of Baseball (F)

13.1314-360 2 hrs. cr.
Organization and management of a school baseball program including individual techniques, team play, and problems in coaching of baseball. Prerequisite: 60 hrs.

Socio-Psychological Aspects of Physical Education (F, S)

13.1314-365 2 hrs. cr.
Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the

demands of physical activities. Group and individual activities and conflicts in sports are analyzed; the effect of sports on society is also studied. Prerequisite: HPER 252.

School Health Education (F, S)

13.1307-370 3 hrs. cr.
Study of the content, facilities, and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on health and nutrition programs for children for elementary majors. Prerequisite: 5 hrs. biology.

Physiology of Exercise (F, S)

13.1314-431 2 hrs. cr.
Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

Prevention and Care of Injuries (F, S)

13.1314-450 3 hrs. cr.
Designed to provide knowledge related to prevention, care, and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.

Advanced Athletic Training (S)

13.1314-451 2 hrs. cr.
A study of professional relationships, pharmacology, special problems in athletics, exercise programs, and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

Administration of Physical Education (F, S)

13.1314-470 2 hrs. cr.
Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment, and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

Seminar in Health or Physical Education (Demand)

13.1314-498 1-3 hrs. cr.
A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

Independent Study (F, S)

13.1314-499 1-3 hrs. cr.
Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by department head. Prerequisite: Senior standing, 3.0 GPA in major, and permission of department head.

**THE FOLLOWING COURSES MAY BE
REPEATED THREE TIMES**

Course No.	Hours cr.
13.1314-161 Varsity Football (F).....	1
13.1314-162 Varsity Basketball (F).....	1
13.1314-163 Varsity Volleyball (F)	1
13.1314-171 Varsity Cross Country (F).....	1
13.1314-172 Varsity Track and Field (S).....	1
13.1314-180 Varsity Golf (S)	1
13.1314-182 Varsity Baseball (S).....	1
13.1314-183 Varsity Softball (S).....	1
13.1314-191 Varsity Soccer (F)	1
13.1314-192 Varsity Tennis (S)	1
13.1314-222 Varsity Sports and Activities (F)	1
13.1314-250 Dance and Exercise (S)	1
13.1314-261 Elementary Swimming (F)	1
13.1314-292 Fitness and Weight Training (F)	1


THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

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RECEIVED
JAN 10 1964
FROM
J. H. D. JENSEN
TO
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J. H. D. JENSEN

RECEIVED
JAN 10 1964
FROM
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TO
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RE
J. H. D. JENSEN

The School of Technology

A series of five horizontal lines of varying thicknesses, with the thickest line at the top and the others becoming progressively thinner towards the bottom.

School of Technology

School Dean

James K. Maupin

Degrees and Majors

Bachelor of Science

Computer Information Science
Criminal Justice Administration
Environmental Health
Medical Technology
Nursing
Management Technology (in conjunction with The School of Business)

Associate of Science

Computer Science
Law Enforcement
Computer Assisted Manufacturing Technology
Computer Aided Drafting and Design
Nursing
Radiologic Technology
Environmental Health Technology
Dental Hygiene
Pre-engineering

Associate of Arts (Preprofessional)

Prepharmacy
General (Paramedic)

Certificate (one year)

Data Processing

Certificate (less than two semesters, offered through Continuing Education)

Emergency Medical Technician
Emergency Medical Technician-Paramedic
Basic Police Recruit

Options and Emphases:

Computer Information Science
Business
Science
As a Second Teaching Field

Minors: (See Departments)

Computer Information Science
Criminal Justice Administration
Military Science

ROLE

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by, and under the leadership of, professional educators who also have the advantage of a background of actual work experience in business, industry, health care, and government. This instruction is further enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities, and natural sciences, as well as courses to refine a student's ability to read, write, speak, and think are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background, or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., B.S.E., A.S., and A.A. degrees and to one-year certificates. Programs of shorter duration, required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry, and public service.

All departments work closely with advisory committees made up of persons from business, industry, government, and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

GOALS

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;
2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are relevant to contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;
5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions that serve a variety of area needs;
7. to offer quality programs and, in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills, and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

AVIATION

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:
Mr. James K. Maupin
Office: 113 Police Academy
Phone: 625-9328

Computer Science

FACULTY

Earney - Head, Herr, Kelley, Kirchner, Mays, Oakes, Tunnell

Two associate of science (A.S.) degrees have the goals of preparing the student for entry-level employment in business, industry, or government in the general field of computing. Both of these two-year programs require 25 hours of Core Curriculum (see "Academic Regulations", page 36). Some Core Curriculum requirements can meet degree requirements of the department and/or course prerequisites; these are suggested below.

COMPUTER PROGRAMMING (curric. code 5103) is an associate of science curriculum with a business orientation. Total credit hours, 64.

Core Curriculum Requirements 25
Math 130, College Algebra OR Math 131, Finite Mathematics (preferred) should be taken early as one is a co-requisite for programming and accounting.

Computer Core 24

- Comp 110 Programming I (Pascal)
- Comp 120 (FOR), 115 (BAS), 200 (BAS), 230 (RPG) Select 1
- Comp 210 Block Structured Programming
- Comp 230 (RPG), 234 (COB) Select 1
- Comp 240 Statistical Computer Applications
- Comp 301 Principles of Digital Computers
- Comp 302 Systems Concepts and Data Communications
- Comp 305 Microcomputer Applications and Management

Business Core 12

- Acct 201 Elementary Accounting I
- Acct 202 Elementary Accounting II
- Acct 310 Cost Accounting
- Acct 325 Managerial Accounting
- Econ 202 Micro Economics
- Elective (optional)**
(to achieve at least 64 total hours)
- COMPUTING ANALYSIS** (curric. code 5104) is an A.S. curriculum with a science and mathematics orientation. Total Cr. Hrs. 64-69

Core Curriculum 18

Math and physics hours (below) satisfy eight hours of additional College Core Curriculum requirements.

Computer Core 21

- Comp 110 Programming I (Pascal)
- Comp 120 FORTRAN
- Comp 210 Block Structured Programming
- Comp 240 Statistical Computer Applications
- Comp 301 Principles of Digital Computers
- Comp 115, 200, 230, 234, CIS 330

SELECT 1

- CIS 340 Analog Methods w/ Digital Computers

Mathematics Core 18-21

- Math 150 Calculus I
- Math 250 Calculus II
- Math 260 Calculus III
- AND THESE: Math 322 Differential Equations
- Math 431 Numerical Analysis
- OR THIS: Math 350 Introduction to Numerical Analysis

Physics Core 10

- Phys 250 & 260 General Physics I & II
- Electives**
(to achieve at least 64 total hours)

Suggested Order of Study

Associate of Science Degree

Major Code 5103

Computer Programming

FRESHMAN YEAR

1st Semester

Course	Hours
Comp 110 Programming I	3
Math 131 Finite Math	3
CORE [Eng 101 Composition]	3
CORE [PSc 120 Gov't: U.S., State, & Local	3
CORE [Psy 120 College Orientation]	1
CORE Elective (Fine Art)	3
	16

2nd Semester

Comp 210 Block Structured Prog	3
Acct 201 Principles of Accounting I	3
Comp XXX Program Language	3
Comp XXX Program Language	3
CORE [Phys 100 or Bio 101]	4-5
CORE [HPER 101 PE Activity]	1
	17-18

SOPHOMORE YEAR

1st Semester

Comp 2XX Elective	3
-------------------	---

Comp 240 Statistical Computer Applications	3
Acct 202 Principles of Accounting II	3
Econ 202 Principles of Micro Economics	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Comm 100 Oral Communications]	3
	17

2nd Semester

Comp 301 Principles of Digital Computers	3
Comp 302 Systems and Data Comm	3
Comp 305 Microcomputer Applications	3
Acct 325 Managerial Acct	3
CORE [Psy 100 General Psychology]	3

For additional information contact:

Mr. Steve Earney

Office: 224A Matthews Hall

Phone: 625-9350

Suggested Order of Study

Associate of Science Degree

Major Code 5104

Computing Analysis

FRESHMAN YEAR

1st Semester

Course	Hours
Comp 110 Programming I	3
CORE [Psy 120 College Orientation]	1
Math 150 Calc I	5
CORE [Eng 101 Composition]	3
CORE [Psy 100 General Psychology]	3
CORE [Comm 100 Oral Communications]	3
	18

2nd Semester

Comp 120 FORTRAN	3
Comp 210 Block Structured Prog	3
Math 250 Calculus & Analytical Geometry II	5
Phys 250 General Physics I	5
CORE [HPER 103 Lifetime Wellness]	2
	18

SOPHOMORE YEAR

1st Semester

Comp 240 Stat Comp Appl	3
Comp 330 Assembler Lang	3
Phys 260 General Phys II	5
Math 260 Calc III	5
CORE [HPER 101 PE Activity]	1
	17

2nd Semester

Comp 301 Prin of Dig Comp	3
CIS 340 Analog Methodology	3
Math 350 Intro Numer Anal	3
CORE [PSc 120 Gov't: U.S., State, & Local	3
CORE Elective (Fine Art)	3
Comp Elective	3

The School of Technology

CERTIFICATE OF ACHIEVEMENT

A 30-hour curriculum that provides elements of Core Curriculum, computer science, and business is available. This curriculum does not lead to a degree, but a certificate is awarded by the Dean of the School of Technology to acknowledge work completed.

Eng 101 Freshman Composition
Math 130 or higher
Comp 105 Introduction to Microcomputer Use

OR

CIS 305 Microcomputer Applications
Comp 110 Programming I (Pascal)
1 Additional 3, 4, or 5 cr. hr. Core Curriculum course;
1 Additional 3 cr. hr. course from student's area of application, interest, or emphasis;
2 Additional 3 cr. hr. courses—General Elective.

For additional information contact:

Mr. Steve Earney
Office: 224A Matthews Hall
Phone: 625-9350

Computer/Information Science

FACULTY

Earney - Head, Herr, Kelley, Kirchner, Mays, Oakes, Tunnell

The increasing use of computers in business, government, science, industry, education, and the home has created a broad spectrum of opportunities for employment, service, or personal use of computing machines and techniques. To assist the graduate in exploiting these opportunities, a bachelor of science in computer information science is offered with two options, one oriented toward business (Curriculum Code 5105), the other oriented toward the sciences (Curriculum Code 5106). There is considerable opportunity to tailor the curriculum to the individual's liking through the judicious selection of computer and/or professional electives.

BACHELOR OF SCIENCE IN CIS (Curriculum code 5105, Business Option)

Core Curriculum (See Academic Regulations, page 34) 51 cr. hrs.

Math 131 Finite Math (or Math 130, College Algebra which may substitute for Finite Mathematics) should be taken early as one is a prerequisite for Accounting and a corequisite for Programming I.

Computer Core

Comp 110 Programming I (Pascal)
Comp 210 Block Structured Programming
Comp 234 Business Data Processing Techniques (COBOL)
Comp 240 Statistical Computer Applications
Comp 302 Systems Concepts and Data Communications
CIS 320 Operations Modeling
CIS 334 Advanced Structured COBOL
CIS 350 Data Structures
CIS 400 Computer Colloquium (1 cr. hr.)
CIS 410 Systems Analysis and Design
CIS 425 Database Design and Implementation
CIS 450 Operating Systems Software
CIS 498 Seminar in Computer/Information Science

Professional Concentration

Acct 201 Elementary Accounting I
Acct 202 Elementary Accounting II
Acct 310 OR HIGHER (Acct 325 is recommended)
Math 302, Math 310 or GB 321
MM 350 Principles of Management
Psy 110 Psychology of Human Development

OR

MM 441 Organizational Behavior
PLUS 12 cr. hrs. of professional electives (e.g., computer info. sci. courses, upper div. bus. courses, or upper div. specialty courses)

General Electives

Bachelor of Science

Major Code 5105

Computer Information Science (Business Option)

FRESHMAN YEAR

1st Semester	Course	Hours
Comp 110	Programming I	3
Math 131	Finite Math	3
CORE	[Eng 101 Composition]	3

CORE	[Psy 100 General Psychology]	3
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 PE Activity]	1
		14

2nd Semester

Comp 210	Blk Structured Prog	3
Econ 180	Amer Econ Syst (or Econ 201 & Econ 202)	3
CORE	[Eng 102 or 103]	3
Bio 101	General Biology	4
CORE	[HPER 103 Lifetime Wellness]	2
		15

SOPHOMORE

1st Semester

Comp 240	Stat Comp Appl	3
Comp 234	Bus DP Tech (COBOL)	3
Acct 201	Accounting I	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE		3
		17

2nd Semester

CIS 334	Adv Struc COBOL	3
CIS 305	Microcomp Appl	3
Acct 202	Accounting II	3
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
GB 321	Business Stats (or Math 310 Elem Stats)	3
Math 302	Calc, Mgmt/SoSci	3
		18

JUNIOR

1st Semester

Comp 302	Syst & Data Comm	3
Comm 100	Oral Communications	3
CIS 320	Operations Modeling	3
Professional Elective		3
Professional Elective		3
		15

2nd Semester

CIS 350	Data Structures	3
MM 350	Principles of Mgmt	3
CIS 400	Comp Colloquium	1
Acct 325	Managerial Acct	3
CORE	[Literature]	3
CORE		3
		16

SENIOR

1st Semester

CIS 410	Systems Anal & Des	3
CIS 450	Oper Syst Software	3
CORE	[Hist 110 U.S. History]	3
MM 441	Org Behavior	3
Elective		3
		15

2nd Semester

CIS 420	Database Design & Implementation	3
CIS 498	Seminar in CIS	3
Professional Elective		3
Elective		3
Elective		3

Suggested Order of Study

BACHELOR OF SCIENCE IN CIS (Curriculum code 5106, Science Option)

Core Curriculum 43
Math and Physics below satisfy eight additional credit hours of Core Curriculum requirements.

Computer Core 40
Comp 110 Programming I (Pascal)
Comp 115, 200 (BAS), 120 (FOR),
230 (RPG), CIS 305, 334 SELECT 2
Comp 210 Block Structured
Programming

Comp 234 Business Data Processing
Techniques (COBOL)

Comp 240 Statistical Computer
Applications

CIS 320 Operations Modeling

CIS 330 Assembler Language

CIS 340 Analog Methodology w/
Digital Computers

CIS 350 Data Structures

CIS 400 Computer Colloquium (1
cr. hr.)

CIS 450 Operating Systems
Software

CIS 460 Survey of Computer
Languages

CIS 498 Seminar in Computer/
Information Science

Professional Concentration 40

Math 150 Calculus I

Math 250 Calculus II

Math 260 Calculus III

Math 322 Differential Equations

Math 350 or 431 (Numerical Analysis)
SELECT 1

Phys 250 General Physics I

Phys 260 General Physics II

PLUS 9 cr. hrs. of professional

electives (e.g., computer information
science courses or upper division
science or math) (Math 310 or 361 are
suggested)

General Electives 6

FRESHMAN YEAR

1st Semester

Course	Hours
Math 150 Calc I	5
CORE [Eng 101 Composition]	3
CORE [Psy 100 General Psychology]	3
Comp 110 Programming I	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Psy 120 College Orientation]	1
	17

*2nd Semester

Comp 210 Block Structured Prog	3
Math 250 Calc II	5
CORE [Bio 101 General Biology]	4
CORE [HPER 101 PE Activity]	1
CORE [Eng 102 or Eng 103]	3
	16

SOPHOMORE YEAR

1st Semester

Comp 234 Bus DP Tech (COBOL)	3
Math 260 Calc III	5
Phys 250 General Phys I	5
CORE	3
	16

2nd Semester

Comp 120 (for elective)	3
Phys 260 General Phys II	5
CORE [Hist 110 U.S. History]	3
CORE [Comm 100 Oral Communications]	3
CORE	3
	17

JUNIOR YEAR

1st Semester

Comp 240 Stat Comp Appl	3
CIS 320 Operations Modeling	3
CIS 400 Comp Colloquium	1
CORE [Hist 120 U.S. History]	3
Professional Elective	3
CORE	3
	16

2nd Semester

CIS 350 Data Structures	3
CIS 340 Analog Methods	3
Math 322 Differential Equations	3
CORE [PSc 120 Gov't: U.S., State, & Local]	3
CORE	3
	15

SENIOR YEAR

1st Semester

CIS 450 Oper Syst Software	3
CIS 330 Assembler Lang	3
Math 350 Intro Numer Anal	3
Professional Elective	3
Elective	3

2nd Semester

CIS 460 Survey Comp Lang	3
CIS 498 Seminar in CIS	3
Professional Elective	3
Elective	3
Elective	3

For additional information contact:
Mr. Steve Earney
Office: 224A Matthews Hall
Phone: 625-9350

*COMPUTER SCIENCE AS A SECOND TEACHING FIELD

Students planning to teach computer science as a second field in secondary school should complete the following computer core courses in addition to Core Curriculum and Certification Requirements:

***The State Department of Elementary and Secondary Education does not yet recognize computer science as a teaching field; thus, teaching certification in this field is not available in Missouri.**

Comp 110 Programming I (Pascal)	3
Comp 115 Computing I (BASIC)	3
Comp 200 Advanced Personal Computing with Graphics (BASIC)	3
Comp 210 Block Structured Programming	3
Comp 230 Report Program Generation	3
Comp 301 Principles of Digital Computers	3
Comp 305 Microcomputer Applications and Mgmt	3
Educ 346 Teaching Computer Science - Secondary	2
CIS 350 Data Structures	3
	26

The courses listed above should be supplemented by courses selected from the following list. Thirty or more hours are needed in the second teaching field; thus, a minimum of two additional computer information science courses (6 semester hours) are to be selected, with the aid of an advisor from the computer information science department.

Comp 234 Business Data Processing Techniques	3
Comp 240 Statistical Computer Applications	3
Comp 302 Systems Concepts & Data Communications	3

Suggested Order of Study

Bachelor of Science Degree

Major Code 5106

**Computer/Information Science (Option II, SCI/
MATH)**

The School of Technology

CIS 330	Assembler Language	3
CIS 334	Advanced Structured COBOL	3
CIS 340	Analog Methods (if Math is teaching field)	3
CIS 410	Systems Analysis and Design	3
CIS 425	Database Design and Implementation	3
CIS 498	Seminar in CIS	3

An area of concentration in computer science for elementary school teachers has been designed. It consists of the following courses:

Math 111	Math Elem Teach I
Comp 110	Programming I (Pascal)
Comp 115	Computing I (BASIC)
Comp 200	Advanced Personal Computing (BASIC)
Comp 234	Business Data Processing Techniques (COBOL)
Comp 305	Microcomputer Applications
Comp 301	Principles of Digital Computers
Educ 401	Computer Software in Education

A MINOR in computer information science can be earned in conjunction with a baccalaureate degree in another discipline. This 21 hour option may be tailored to the student's interest area. All students must complete the following courses:

Comp 110	Programming I (Pascal)
Comp 210	Block Structured Programming

OR

Comp 115	BASIC Language
Any 200-level Programming Course or CIS 305	

CIS 350 Data Structures
They will then select three or more additional courses from the following list. Some of these courses have been annotated "B/E"; these are recommended for business and education majors. Those annotated "A&S" are recommended for Arts and Science majors.

Comp 210	Block Structured Programming
----------	------------------------------

OR

CIS 334	Advanced Structured COBOL
Comp 301	Principles of Digital Computers

Comp 302	Systems Concepts and Data Communications (B/E)
CIS 305	Microcomputer Applications
CIS 320	Operations Modeling
CIS 330	Assembly Language (A&S)
CIS 340	Analog Methodology if Math/Sci major (A&S)
CIS 410	Systems Analysis and Design (B/E)
CIS 425	Database Design and Implementation
CIS 450	Operating Systems Software
CIS 498	Seminar in CIS

A BACHELOR OF GENERAL STUDIES (B.G.S.) degree is a viable alternative for a few individual students who may wish thorough preparation for a career in a field not offered by any department or school. As an example, a specialized curriculum for a B.G.S. in general engineering technology is outlined below.

General Education (exclusive of math & physics)	43 cr. hrs.
Math 150, 250, 260, 322, 340, 431	24 cr. hrs.
Phys 250, 260, 312, 341, 372, 480	24 cr. hrs.
Comp 110, 120, 240; CIS 305, 330, 340	18 cr. hrs.
CADD 110, 115, 210, 230	10 cr. hrs.
Chem 101	5 cr. hrs.
Upper-Division Electives	12 cr. hrs.

To pursue a bachelor of general studies curriculum of the student's own design, the student should consult the Registrar.

For additional information contact:

Mr. Steve Earney
Office: 224A Matthews Hall
Phone: 625-9350

Criminal Justice Administration

FACULTY

Seneker - Director, Mosher, Richards, Spurlin, Terry, Whittle, Williams

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are

required to schedule an interview with the director of the programs before enrolling.

The criminal justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building, and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Associated with the crime lab, a complete photographic laboratory, with both automated and color equipment, serves not only for student use, but also to process crime scene and "mug shot" photos for area police and sheriffs. Most of the College's public relations and instructional photography support is also done in this lab.

Missouri law requires new officers to obtain "basic training" in a certified Regional Police Academy. Missouri Southern operates the regional academy for this portion of Missouri, and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters, and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students, ROTC cadets, and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interest-

ed and challenged students working with experienced and dedicated staff.

The B.S. in criminal justice administration is designed for persons planning careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies, and related positions, and for Military Police officers (when combined with the ROTC program). Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

BACHELOR OF SCIENCE IN CRIMINAL JUSTICE ADMINISTRATION

Core Curriculum Requirements 51
Criminal Justice Requirements 22

LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	2
LE 210	Criminal Procedures	3
LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
CJAd 490	Internship in Criminal Justice Administration* (or LE 180)	6

The student must also select a minimum of 20 credit hours from the following list of major course electives:

LE 200	Criminal Investigation I	3
LE 298	Special Topics	1-8
CJAd 130	Introduction to Security	3
CJAd 210	Basic Photography	3
CJAd 230	Physical Security	3
CJAd 260	Legal & Technical Aspects of Firearms	3
CJAd 300	Criminal Investigation II	3
CJAd 310	Traffic Accident Investigation and Control	3
CJAd 320	Probation and Parole	2
CJAd 330	Loss Prevention Techniques*	3
CJAd 331	Administration of Security Systems*	3
CJAd 340	Basic Color Photography*	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3

CJAd 412	Correctional Practices	3
CJAd 450	Criminal Evidence*	3
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3

*See course descriptions for prerequisites.

The major in criminal justice administration also requires the student to complete 21 hours of classwork in the supportive area:

Soc 110	Introduction to Sociology	3
Soc 210	Social Problems*	3
Soc 351	Criminology*	3
	Upper Division Sociology Elective*	3
Psy 100	General Psychology	3
	Psychology Elective	3
	Psychology Elective	3
Comp 105	Intro to Micro Use	3

*See course descriptions for prerequisites.

General electives selected with advisor approval (among which must be sufficient "upper division" courses [courses numbered at the 300 or 400 level] to complete the College's requirement for a minimum 40 upper-division hours).

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Suggested Order of Study

Bachelor of Science Degree
Major Code 2105
Criminal Justice Administration Major

FRESHMAN YEAR

1st Semester		Hours
Course		
LE 100	Intro to Law Enforcement	3
LE 110	Police Organization and Administration	2
CORE	[Eng 101 Composition]	3
CORE	[Econ 180 American Economic System]	3
CORE	[Comm 100 Oral Communications]	3
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 P.E. Activities]	1
		16

2nd Semester

LE 150	Interview and Report Writing	2
CORE	[Eng 103 Technical Writing (or ENG 102)]	3
Math 110	Intro College Math	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
		14

SOPHOMORE YEAR

1st Semester		
LE 210	Criminal Procedures	3
CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fundamentals of Physical Science]	5
CORE	[Soc 110 Intro to Sociology]	3
Comp 105	Intro to Micro Use	3
		17

2nd Semester

LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
Soc 210	Social Problems	3
CORE	[Psy 100 General Psychology]	3
CORE	(Literature)	3
		15

JUNIOR YEAR

1st Semester		
CJAd	Elective	3
CORE	Elective (International Studies)	3
Soc 351	Criminology	3
CORE	PSc 120 Gov't: U.S., State, & Local	3
CORE	Elective (Fine Art)	3
		15

2nd Semester

CJAd	Elective	3
CORE	(Fine Art)	3
Sociology	Elective	3
CORE	Hist 120 U.S. History	3
Psychology	Elective	3
		15

SENIOR YEAR

1st Semester		
CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Psychology	Elective	3
Elective		4
		16

2nd Semester

CJAd 490	Internship in CJAd	6
Elective		3
CJAd	Electives	5
Electives		2

All electives must be approved by a CJAd advisor prior to enrollment.

For additional information contact:
Mr. Don Seneker
Office: 104 Police Academy
Phone: 625-9519

Dental Hygiene

FACULTY

Scorse - Director, Karst, White

The dental hygienist is a dynamic health care professional who is the only member

of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing, and mounting radiographs; collecting and evaluating medical history information; performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents, and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county, and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Southern does not automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates should apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene, and consideration is given to demonstrated scholastic ability and test scores, references, and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1st so that interview appointments can be scheduled for the end of March.

Evidence of satisfactory completion of the prerequisites which include general zoology, intermediate algebra (or higher math), and English composition should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited, and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$400 for uniforms, safety glasses, and graduation pins; \$500 for instruments; approximately \$500 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 78 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of C or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

ASSOCIATE OF SCIENCE DEGREE IN DENTAL HYGIENE

	Semester	Hours
Core Requirements		25
(10 hours satisfied by prerequisites)		
Dental Hygiene Requirements		61
DH 101 Fundamentals of Dental Hygiene I	4	
DH 102 Fundamentals of Dental Hygiene II*	4	
DH 140 Dental Morphology	1	

DH 150 Oral Histology and Embryology	3
DH 160 Dental Radiology	2
DH 190 Clinical Dental Hygiene I*	3
DH 200 Dental Health Education	3
DH 210 Perio-Pathology	3
DH 220 Dental Materials	3
DH 290 Clinical Dental Hygiene II*	5
DH 310 Nutrition	2
DH 320 Pharmacology	2
DH 330 Ethics and Community Dentistry*	3
DH 390 Clinical Dental Hygiene III*	5
Bio 231 Medical Microbiology*	5
Bio 240 Radiation Biology*	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Introductory Chemistry*	5
	85

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science
Major Code 5203
Dental Hygiene Major

PREREQUISITES:

Bio 121	General Zoology	4
CORE	[Eng 101 Freshman Composition]	3
Math 30	Intermediate Algebra (or higher Math Course)	3

FRESHMAN YEAR

Course		Hours
DH 101	Fundamentals of Dental Hygiene I	4
DH 140	Dental Morphology	1
DH 150	Oral Histology and Embryology	3
Bio 306	Human Physiology and Anatomy	5
Chem 100	Introductory Chemistry	5
		18

Spring Semester

DH 102	Fundamentals of Dental Hygiene II	4
DH 160	Dental Radiology	2
DH 220	Dental Materials	3
DH 310	Nutrition	2
Bio 231	Medical Microbiology	5
Bio 240	Radiation Biology	3
		19

Summer Session

DH 190	Clinical Dental Hygiene I	3
DH 210	Perio-Pathology	3
		6

SOPHOMORE YEAR

Fall Semester

DH 200	Dental Health Education	3
DH 290	Clinical Dental Hygiene II	5
DH 320	Pharmacology	2
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Communications]	3
CORE	[HPER 101 P. E. Activities]	1
CORE	[HPER 103 Lifetime Wellness]	2
		19

Spring Semester

DH 330	Ethics and Community Dentistry	3
DH 390	Clinical Dental Hygiene III	5
CORE	(Humanities or Fine Arts)	3
CORE	(Hist 110, Hist 120, or PSc 120)	3
Soc 110	Introduction to Sociology	3

For additional information contact:
Sandra A. Scorse, D.D.S.
Office: 102 Technology Building
Phone: 625-9600

Computer Aided Drafting and Design

FACULTY

Bartholet

The computer aided drafting and design curriculum leads to an associate of science degree in drafting and design. The curriculum prepares individuals to enter employment as drafters and CAD technicians in the fields of manufacturing, architecture, or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and general education courses. Computer assisted drafting and design hardware and software are used to supplement traditional manual instruction in all courses. The department also functions as an authorized training center for both AUTOCAD and VersaCAD software. This allows each student to be exposed to the latest CAD technology while in school. Graduates also receive national recognition as they enter the work force.

Courses are also required in mathematics, science, and the humanities. Math 130 must be completed to meet the mathematics Core Curriculum requirement. It is highly recommended that all computer aided drafting and design majors complete **Math 112 or Math 140**.

Many students who complete the associate of science degree in drafting and design continue their education by pursuing a baccalaureate degree in management technology.

ASSOCIATE OF SCIENCE DEGREE IN COMPUTER AIDED DRAFTING AND DESIGN

Semester Hours

Core Requirements 25 Drafting Requirements 28

CADD 110	Introductory Drafting	3
CADD 115	Intro to Computer Aided Drafting	2
CADD 120	Descriptive Geometry *	3
CADD 130	Machine Drafting *	3
CADD 202	Tool Design or 204 Mech Design *	3
CADD 210	Technical Illustration *	3
CADD 220	Architectural Drafting *	3
CADD 230	Survey and Mapping *	3
CADD 260	Computer Aided Drafting *	3

CAM 100 Intro to Machine Tool Processes

OR

IT 300 Woodworking 4
Electives (at least 9 hours) 9

Art 132	Introduction to Design	3
Art 230	Basic Form	3
CJAD 210	Basic Photography	3
Comp 115	Computing I	3
Comp 120	Computing II	3
Comp 200	Advanced Personal Computing w/graphics	3
Eng 103	Technical Writing	3
IT 310	Introduction to Plastics	3
IT 321	Industrial Electricity	3
IT 322	Electricity/Electronics	3
IT 340	Power Technology	3
CAM 160	Inspection and Gaging	2
CAM 260	Fundamentals of Metallurgy	3
Math 112	Trigonometry	3
CADD 298	Special Topics in Drafting & Design *	1-3
CADD 490	Internship in Drafting & Design *	1-8
CADD 498	Seminar in Drafting & Design *	1-3
CADD 499	Independent Study *	1-3

62

* See course description for prerequisites.

Suggested Order of Study

Associate of Science Degree
Major Code 5303
Computer Aided Drafting and Design Major

FRESHMAN YEAR

1st Semester

Course		Hours
CADD 110	Introduction to Drafting	3
CADD 115	Introduction to Computer Aided Drafting	2
Math 30 or	130 Intermediate or College Algebra	3
CAM 100	Intro Mach Tool Proc or IA 300 Woodworking	4
CORE	(Humanities or Fine Arts)	3
CORE	[Psy 120 College Orientation]	1
		16

2nd Semester

CADD 120	Descriptive Geometry	3
CADD 130	Machine Drafting	3
CORE	[Eng 101 Composition]	3
Comm 101	(or 103) Oral Communication	3
CORE	[HPER 101 Introduction to P.E.]	1
CORE	[HPER 103 Lifetime Wellness]	2
Technical	Elective	3
		18

SOPHOMORE YEAR

1st Semester

CADD 202	or 204 Tool Design or Mechanical Design	3
CADD 230	Mapping & Survey	3
CORE	(Phys 100)	5
Technical	Electives	6
		17

2nd Semester

CADD 210	Technical Illustration	3
CADD 260	Computer Aided Drafting	3
CADD 220	Architectural Drafting	3
CORE	(Psy 100 or Soc 110)	3
CORE	(Hist 110, Hist 120, or PSc 120)	3

For additional information contact:
Mr. Francis Bartholet
Office: 114 Technology Building
Phone: 625-9567

Pre-engineering

FACULTY

Martin, Phillips

The math and physical science departments at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla, have prepared a booklet entitled: "A Model Program for Engineering Transfers." This booklet lists the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR. The plan also includes the courses the student will take at UMR

The School of Technology

to complete a B.S. degree in various engineering disciplines. Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering advisor during the first semester. If a student wishes to transfer to a school other than UMR, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR outline. College catalogs are available in the Reserve area of the Spiva library. Any advisors who desire a copy of the booklet should contact the mathematics or physical science department.

	Semester Hours
Core Curriculum requirements**	25
Pre-engineering Requirements	45
Phys 250 General Physics I*	5
Phys 260 General Physics II*	5
Phys 312 Statics*	3
Chem 101 General Chemistry I***	5
Math 150 Calculus with Analytical Geometry I*	5
Math 250 Calculus with Analytical Geometry II*	5
Math 260 Calculus with Analytical Geometry III*	5
Comp 120 Fortran*	3
Econ 210 Principles of Economics (Macro)	3
(Math or Physics) ***	3
(Humanities/Social Science/Drafting/Chemistry)***	3
	70

*See course descriptions for prerequisites.

**Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

***The student should meet with a pre-engineering advisor for the proper selection depending on the field of engineering.

Suggested Order of Study

Associate of Science Degree
Major Code 5499
Pre-engineering Major

FRESHMAN YEAR

1st Semester	
Course	
CORE	[Eng 101 Composition]

Hours
3

Math 150	Calculus I	5
CORE	[Hist 110 OR 120 U.S. History]	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 Activities]	1
		18

2nd Semester

Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Principles/Economics	3
CORE	Humanities/Fine Arts/Drafting/Chem II *	3-5
		16-18

SOPHOMORE YEAR

1st Semester

Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120	Fortran	3
Core	Sociology or Psychology *	3
CORE	[HPER 103 Lifetime Wellness]	2
		18

2nd Semester

Math 322	Differential Eq.	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mech.	3-4
CORE	[Comm 100 Oral Communications]*	
AND/OR		
CORE	Humanities/Fine Arts	6
		16-17

SUMMER SESSION

Phys 312	Statics	3
*Suggested elective (not strict requirements)		

For additional information contact:

Dr. Larry Martin
Office: 212 Reynolds Hall
Phone: 625-9540
OR
Dr. Russell Phillips
Office: 208 Reynolds Hall
Phone: 625-9719

Environmental Health Technology

FACULTY

Adams - Coordinator, Gibson, Tillman

The College offers the four-year bachelor of science in environmental health with two options and a two-year associate of science degree.

Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of

Crowder College, Neosho, Missouri. The student holds membership in only one student body at a time. At Southern the student pays the same fees as any other student if residency requirements have been met.

Option II

This bachelor of science degree requires four complete academic years at Missouri Southern including a semester internship. Plans for the internship should be made with the student's advisor during the spring semester of the junior year.

The associate of science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Missouri 64850. The combination of Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in environmental health technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the associate of science degree. The student may complete the requirements at either school first, but is a member of only one student body at a time.

BACHELOR OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY

	Semester Hours
Core Requirements	25-26
Biology and Environmental Health	
Core	37
EH 110 Man and Environment	4
Bio 112 Botanical Survey	3
Bio 122 Zoological Survey	3
Bio 231 Medical Microbiology	5
Bio 306 Human Physiology and Anatomy	5
or	
Bio 431 Animal Physiology	5
Bio 442 Invertebrate Zoology or approved substitute	5
EH 300 Earth Environments	4
EH 312 Environmental Biology	4
EH 370 Environmental Health	4
Mathematics and Physical Science Requirements	25
Math 140 College Algebra and Trigonometry	5
Chem 101 General Chemistry I	5
Chem 102 General Chemistry II	5
Chem 201 Analytical Chemistry I	5

Chem 300 Introduction to Modern Organic Chemistry	5
Business Requirements	12
Acct 201 Principles of Accounting I	3
Econ 201 Principles of Economics (Macro)	3
MM 350 Principles of Management	3
MM 352 Personnel Management	3
Option I Water and Wastewater Management	
Water and Wastewater Technical School	30
Upper Division Hours Awarded	20
College Computer Requirement	
Comp 115 Computing I or Computer Course approved by Biology Department	2-3
131-133	
Option II Institutional and Community Health	16-17
Bio 361 Parasitology	4
OR	
422 Invertebrate Zoology	5
Bio 402 General Ecology	4
OR	
481 Aquatic Biology	4
EH 450 Internship in Environmental Health	1-8
College Computer Requirement	
Comp 115 Computing I or Computer Course approved by Biology Department	2-3
Electives	11
	128

ASSOCIATE OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY

Core Requirements	25
Biology and Environmental Health Core	8-9
Bio 101 General Biology	4
Bio 231 Medical Microbiology	5
OR	
312 Environmental Biology (if WWTS completed)	4
Physical Science Requirement	10
Chem 101 General Chemistry I	5
Chem 102 General Chemistry II	5
Water and Wastewater Technical School	30
	86-87

Suggested Order of Study

Associate of Science Degree

Major Code 5299

Environmental Health Major

**Prescribed 48 week course at Water and Wastewater School-30 Hrs.

FRESHMAN YEAR

1st Semester		Hours
Course		
Chem 101	General Chemistry I	5
Bio 101	General Biology	4
Math 140	Algebra and Trigonometry	5
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 Activities]	1
		16

2nd Semester

Chem 102	General Chemistry II	5
Bio 312	Environmental Biology	4
CORE	[Eng 101 Composition]	3
CORE	[Literature or Fine Arts]	3
CORE	[Hist 110 or PSc 120]	3
		18

SUMMER SESSION

CORE	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
CORE	HPER 103 Lifetime Wellness	2
		8

[] Department Recommendations

For additional information contact:

Dr. Wayne Adams

Office: 312 Reynolds Hall

Phone: 625-9731

OR

Mr. David Tillman

Office: 303 Reynolds Hall

Phone: 625-9698

**This work may be taken prior to entering Southern or after completing work on the Crowder College campus.

Suggested Order of Study

Bachelor of Science Degree

Major Code 1299

Environmental Health Technology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
CORE	[Eng 101 Composition]	3
Math 140	Algebra & Trigonometry	5
Bio 101	General Biology	
OR		
EH 110	Man and Environment	4
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 P.E. Activity]	1
Comp 115	Computing I	3
		17

2nd Semester

Bio 112	Botany Survey	3
CORE	[Eng 102 Composition]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Fine Arts Section (A)]	3
CORE	[International Cultural Studies]	3
		15

SOPHOMORE YEAR

1st Semester

CORE	[Hist 120 U.S. History]	3
CORE	[Comm 100 Oral Communications]	3
Bio 122	Zoology	3
Chem 101	General Chemistry I	5
Acct 201	Principles of Accounting	3
		17

2nd Semester

Chem 102	General Chemistry II (Chem 101)	5
Bio 231	Medical Microbiology	5
EH 300	Earth Environments	4
MM 350	Principles of Management	3
		17

JUNIOR YEAR

1st Semester

Chem 201	Analytical Chemistry I	5
Bio 306	Human Physiology and Anatomy	
OR		
Bio 431	Animal Physiology	5
Bio 312	Environmental Biology	4
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
		17

2nd Semester

Chem 300	Introduction to Organic Chemistry	5
	Humanities and Fine Arts (Sec B)	3
MM 352	Personnel Management	3
EH 370	Environmental Health	4
Econ 201	Principles of Economics	3
		18

SENIOR YEAR

Option I

Summer term I

Humanities and Fine Arts (Sec C)	3
CORE [HPER 103 Lifetime Wellness]	2
	5

Summer term II

CORE	[Psy 100 General Psychology or Soc 110]	3
Bio 422	Invertebrate Zoology	
OR	Approved Elective	5
		8

Three trimesters of study at the Water and Wastewater Division of Crowder College. (This work may be taken prior to entering Missouri Southern.)

The School of Technology

SENIOR YEAR

Option II

1st Semester

Bio 361	Parasitology	4
OR		
422	Invertebrate Zoology	5
CORE	[Psy 100 General Psychology or Sociology 110]	3
CORE	[Humanities and Fine Arts (Sec C)]	3
		10-11
2nd Semester		
Bio 402	Ecology	4
OR		
Bio 481	Aquatic Ecology	3
CORE	International Cultural Studies	2
	[HPER 103 Lifetime Wellness]	9

Summer Session

EH 450	Internship	1-8
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For additional information contact:

Dr. Wayne Adams
Office: 312 Reynolds Hall
Phone: 625-0731
OR
Mr. David Tillman
Office: 303 Reynolds Hall
Phone: 625-9698

Law Enforcement

FACULTY

Seneker - Head, Mosher, Richards, Spurlin, Terry, Whittle, Williams

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state, and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. (See page 136)

ASSOCIATE OF SCIENCE IN LAW ENFORCEMENT

	Semester Hours
Core Requirements	25
(6 hours satisfied by required courses)	
Law Enforcement Requirements	42
Soc 110 Introduction to Sociology	3
Soc 210 Social Problems*	3
Soc 312 Juvenile Delinquency*	3
Soc 351 Criminology*	3
LE 100 Introduction to Law Enforcement	3

LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	2
LE 180	Basic Police Academy	6
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
LE 290	Police Supervision and Management	3
LE 250	Criminal Law	3
Psy 100	General Psychology	3
Psy 221	Psychology of Personal Adjustment	3
PSc 120	Gov't: U.S., State, & Local	3
HPER 220	First Aid	2
		67

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree

Major Code 5505

Law Enforcement Major

FRESHMAN YEAR

1st Semester		
Course		Hours
CORE	[Eng 101 Composition]	3
Math 110	Intro to College Math	3
Soc 110	Intro to Sociology	3
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 103 Lifetime Wellness]	2
		17

2nd Semester

Psy 100	General Psychology	3
CORE	[Phys 100 Fundamentals of Physical Science]	5
Soc 210	Social Problems	3
LE 150	Interview and Report Writing	2
CORE	[PSc 120 Gov't: U.S., State, & Local]	3
CORE	[HPER 101 P.E. Activities]	1
		17

Summer Semester

LE 180	Basic Police Academy	6
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SOPHOMORE YEAR

1st Semester		
CORE	[Comm 100 Oral Communications]	3
Soc 351	Criminology	3
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
Psy 221	Psychology of Personal Adjustment	3
		15

2nd Semester

Soc 312	Juvenile Delinquency	3
HPER 220	First Aid	2
LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
CORE	(Fine Arts)	3
	Advisor Approved Elective	3
		17

For additional information contact:

Mr. Don Seneker
Office: 104 Police Academy
Phone: 625-9519

Computer Assisted Manufacturing Technology (CAM)

FACULTY

Schultz

The computer assisted manufacturing technology curriculum leads to an associate of science degree in manufacturing technology. The curriculum prepares individuals for employment as technicians in the manufacturing or chemical processing industries.

The requirements for the degree provide a broad base of technical and general education courses that will assist the individual in securing employment and responding to future technological changes. The use of computers is emphasized throughout the program. The College is a National Authorized AutoCAD Training Center and VersaCAD Training Institution. The computer assisted manufacturing technology department receives many manufacturing related software grants on a regular basis. This learning environment, combined with a faculty who have direct links with industry, insures instruction that is current with the latest technological developments.

Computer assisted manufacturing technology majors are required to take courses in mathematics, physical science, computer programming, computer aided drafting and design (CADD), computer numerical control (CNC), robotics, and automation. These courses are combined with manufacturing and technical electives to provide a curriculum that will assist the individual in developing the strong, yet flexible, technical background needed in today's industrial assignment.

Many students who complete the associate of science degree in computer assisted manufacturing technology can expand their education by pursuing a baccalaureate degree in management technology.

ASSOCIATE OF SCIENCE IN COMPUTER ASSISTED MANUFACTURING TECHNOLOGY

	Semester	Hours
Core Requirements		25
Computer Assisted Manufacturing Tech Requirements		28
CAM 100 Intro to Machine Tool Processes		4
CAM 105 Intermediate Mach Tool Processes *		4
CAM 200 Advanced Mach Tool Processes *		4
CAM 250 Computer Numerical Control *		4
CAM 290 Production Planning & Control *		3
CADD 110 Introductory Drafting		3
CADD 130 Machine Drafting *		3
Math 112 Trigonometry		3
Manufacturing Technology Electives (at least 10 hours)		10
CAM 160 Inspection and Gaging *		2
CAM 260 Fundamentals of Metallurgy		3
IT 310 Introduction to Plastics *		3
IT 321 Industrial Electricity		3
IT 322 Electricity/Electronics *		3
IT 340 Power Technology		3
CADD 115 Intro to Computer Aided Drafting		1
CADD 202 Tool Design *		3
CADD 204 Mechanical Design *		3
CADD 260 Computer Aided Drafting *		3
Comp 115 Computing I *		3
CAM 298 Special Topics in Manufacturing Tech *		1-8
CAM 490 Internship in Manufacturing Tech *		1-8
CAM 499 Independent Study in Manufacturing Technology		1-3

* See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree

Major Code 5399

Computer Assisted Manufacturing Technology Major

FRESHMAN YEAR

1st Semester

Course		Hours
CAM 100	Intro Machine Tool Processes	4
CADD 110	Intro Drafting	3
Math 130	College Algebra (or 30 Intermediate Algebra)	3
CORE	[Eng 101 Composition]	3
CORE	[HPER 101 P.E. Activities]	1
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 103 Lifetime Wellness]	2
		17

2nd Semester

CAM 105	Intermediate Machine Tool Processes	4
CADD 130	Machine Drafting	3
Math 112	Trigonometry	3
CORE	[Psy 100 General Psychology or Soc 110 Intro Sociology]	3
CORE	[Comm 100 Oral Communications]	3
		16

SOPHOMORE YEAR

1st Semester

CAM 200	Advanced Machine Tool Processes	4
CORE	(Hist 110, Hist 120, or PSc 120)	3
CORE	(Fine Art or Literature)	3
Technical	Electives	6
		16

2nd Semester

CAM 250	Numerical Control & Comp Numerical Control	4
CAM 290	Production Planning and Control	3
CORE	[Phys 100 Intro to Physical Science]	5
Technical	Electives or Internship	4
		16

For additional information contact:
Mr. Donald J. Schultz
Office: 115 Technology Building
Phone: 625-9327

Medical Technology

FACULTY

Baiamonte, Mosher

The bachelor of science in medical technology degree is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required sci-

ence and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo.; and Research Medical Center, Kansas City, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year, or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of Southern's student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a mini-

The School of Technology

mum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

	Semester Hours
Core Curriculum Requirement 51**	39
Biology Requirement 24-25	
Bio 121 General Zoology	4
Bio 231 Fundamentals of Medical Microbiology*	5
Bio 305 Genetics*	4
Bio 306 Human Physiology and Anatomy*	5
Bio 456 Immunology*	3
Either	
Bio 361 Parasitology*	4
OR	
362 Virology*	3
Chemistry Requirement 24-25	
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem 201 Analytical Chemistry I*	5
Chem 300 Introduction to Modern Organic Chemistry*	5
Either	
Chem 351 Biochemistry***	4
OR	
421 Analytical Chemistry II*	5
Other Requirements 24-25	
Phys 151 Elementary College Physics I*	5
Phys 152 Elementary College Physics II*	3 8
Math 140 Algebra and Trigonometry	5
Comp 115 Computing I	3
400 Level Medical Technology Courses (at Hospital)	32
	143-146

*See course descriptions for prerequisite sites.

**Required biology, physics, and mathematics courses simultaneously satisfy core curriculum and major requirements.

***St. John's, Springfield, Mo., requirement

Suggested Order of Study

Bachelor of Science Degree
Major Code 1223
Medical Technology Major

FRESHMAN YEAR

Course	Hours
Chem 101 General Chemistry I (Algebra & Trigonometry)	5
Math 140 Algebra and Trigonometry	5
CORE [Eng 101 Composition]	3
Comp 115 Computing I	3
CORE [Psy 120 College Orientation]	1
	17

2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Bio 121 General Zoology	4
CORE [History 110 U.S. History]	3
CORE [Eng 102 Composition]	3
CORE [Econ 180 American Economic System]	3
	18

SOPHOMORE YEAR

Course	Hours
Chem 201 Analytical Chemistry I (Chem 102)	5
Bio 231 Fundamentals of Medical Microbiology	5
CORE [Psy 100 or Soc 110]	3
CORE [Humanities & Fine Arts]	3
CORE [HPER 101 P.E. Activity]	1
Elective [MT 200 Intro to Medical Technology]	1
	18

2nd Semester

Chem 300 Intro to Modern Organic Chemistry (Chem 102)	5
Bio 305 Genetics	4
CORE [Communications]	3
CORE [Humanities & Fine Arts]	3
CORE [Hist 120 or Hist 320 U.S. History]	3
	18

JUNIOR YEAR

Course	Hours
Phys 151 Elementary College Physics I (Math 140)	5
Bio 306 Human Physiology and Anatomy (Bio 121)	5
Bio 361 Parasitology (Bio 121)	5
OR	
Bio 362 Virology (Bio 231)	3-4
CORE [HPER 103 Lifetime Wellness]	2
CORE [Humanities & Fine Arts]	3
	16-19

2nd Semester

Chem 421 Analytical Chemistry II (Chem 201)	5
OR	
Chem 351 Biochemistry (Chem 300)	4-5
Phys 152 Elementary College Physics II (Phys 151)	3
Bio 456 Immunology	3
CORE [Psc 120 Gov't, U.S. State, & Local]	3
CORE [International Cultural Studies]	3
	16-17

SENIOR YEAR

Course	Hours
MT 401 Clinical Chemistry	10
MT 403 Hematology	6
	16

2nd Semester

(At an approved School of Medical Technology)	
MT 402 Clinical Microscopy	1
MT 404 Serology	3
MT 405 Clinical Microbiology	7
MT 406 Immunohematology	3
MT 407 Special Topics in Medical Technology	2
	16

() Prerequisites

[] Department Recommendations

For additional information contact:

Dr. Vernon Baiamonte

Office: 213 Reynolds Hall

Phone: 625-9541

OR

Dr. Melvyn Mosher

Office: 242 Reynolds Hall and 105 Police Academy

Phone: 625-9733 or 625-9382

Military Science

FACULTY

Dunn - Head, Hellams, Brown, Rose

Military Science provides an additional dimension to a student's educational program. Students who participate in military science courses receive leadership, managerial, and confidence-building training that will be of great value to them in any career they seek.

The military science program at Missouri Southern is divided into two elective programs, the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit and do not have uniform or appearance requirements. Basic Course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include leadership, survival, marksmanship, rappelling, land navigation, world conflicts, terrorism, and history of ROTC. These courses will also qualify students for the Advanced Course in the event that they

elect to continue in the Military Science program.

The Advanced Course includes the junior and senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve, or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They also will attend ROTC Advanced Camp, normally during the summer between the junior and senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army, or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behavior, written communication skills, military history, national security policy, and management.* Course work in management and national security policy may be deferred, with the permission of the department head, if completion of these courses would require the student to carry an academic overload. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition, books, fees, and other educational expenses. They also pay the student \$100 a month during each academic year.

Students with at least two academic years remaining in their course of study (undergraduate, graduate, or a combination of both) who have not completed more than two semesters of Military Science can complete the Basic Course requirements by participating in Basic Camp or by attending Summer School. Pay and allowances are received for Basic Camp participants.

(See MS 298 and MS 190)

All students desiring to enroll in the Advanced Course who are not U.S. citizens must have department permission prior to enrolling.

Students with prior military service or military science training, including Junior ROTC, may be eligible for advanced placement in the military science program. A minor in military science may be obtained by completion of not less than 21 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for freshman and sophomore-level courses except MS 122. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the military science department.

Nursing

ASSOCIATE OF SCIENCE DEGREE

FACULTY

Box - Head, Ackiss, Ayton, Elgin, Jacobs, Ketchum, Shippee, Ross

Upon satisfactory completion of the associate of science degree in nursing, the graduate is eligible to apply to write the examination for licensure as a Registered Nurse (R.N.), barring restrictions stated in the Nursing Practice Act 335.066,1,2(1)-(14) of the state of Missouri. This program is accredited by Missouri State Board of Nursing and National League for Nursing.

Admission to Missouri Southern does not automatically confer admission to the nursing program. In addition, candidates are required to apply for admission to the department of nursing office, Kuhn Hall. Applications should be submitted prior to February 1 preceding the fall semester in which the applicant wishes to enter. Each application is reviewed by the Selection Committee for the department of nursing.

Meeting qualifications does not ensure selection if more applications are received than class size can accommodate. Each application is reviewed by the selection committee for the department of nursing.

Based upon the committee's evaluation, each application is placed in one of three

categories: 1) approved for admission; 2) approval on condition that certain stated requirements are met; or 3) denied admission.

Tuition and fees for nursing students include those listed for all college students. Information on projected additional expenses is available on request from the nursing department.

Courses to complete Core Curriculum requirements should be selected with advisor approval. Nursing courses must be completed in the prescribed sequence. Supporting science courses must be completed with a grade of "C" or above, prior to or concurrent with the designated nursing course, for progression in the nursing program (see suggested order of study).

Students participate in clinical laboratory experiences giving direct care to patients under the supervision of the nursing faculty. A variety of community health agencies are used for clinical laboratory experience.

ASSOCIATE OF SCIENCE DEGREE IN NURSING

	Semester Hours
Core Requirements	25
(Some satisfied by required courses)	
Nursing Requirements	52
Nurs 100 Introduction to Nursing Process	6
Nurs 110 Nursing Process with the Developing Family*	9
Nurs 130 Nursing Process in Psychiatric-Mental Health Nursing*	4
Nurs 220 Nursing Process with Adults I*	9
Nurs 240 Nursing Process with Adults II*	9
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Introduction to Chemistry*	5
Bio 231 Fundamentals of Medical Microbiology*	5
	77

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree
Major Code 5208
Nursing Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Nurs 100	Introduction to Nursing Process	6
Bio 306	Human Physiology and Anatomy *	5
CORE	[Eng 101 Composition]	3
Math 30	Intermediate Algebra (or above)	3
		17

*Enrollment in Bio 306 will depend on pre-entrance Zoology test scores or completion of Bio 121. This course must be completed prior to or concurrent with Nurs 100.

2nd Semester

Nurs 110	Nursing Process with Developing Family	9
Chem 100	Introduction Chemistry **	5
Psy 100	General Psychology OR	
Soc 110	Introduction to Sociology	3
		17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer

Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing	4
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SOPHOMORE YEAR

1st Semester		Hours
Nurs 220	Nursing Process with Adults I	9
Bio 231	Fundamentals of Medical Microbiology ***	5
CORE	(Literature or Fine Art)	3
		17

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semester

Nurs 240	Nursing Process with Adults II	9
CORE	[HPER 101 Intro to Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Communications]	3
CORE	(PSc 120 or Hist 110)	3
		18

For additional information contact:
The Department of Nursing
Office: 210 Kuhn Hall
Phone: 625-9322

Nursing

BACHELOR OF SCIENCE DEGREE

FACULTY

Box - Head, Ayton, Singleton

The bachelor of science in nursing completion program is designed exclusively for Registered Nurses. An assumption of the program is that the student has achieved nursing knowledge through successful completion of a generic program preparing individuals to become registered nurses. Applicants who have not received college credit for nursing courses in the basic program may challenge a maximum of 30 credit hours of the nursing course requirement through examination for credit.

Admission to the program is on a selective basis. The admission criteria are: current registered nurse licensure in the state of Missouri (or eligibility for licensure); one year minimum practice experience in nursing or two years of practice within the five (5) year period prior to admission; a cumulative grade point average of 2.5 (on a 4.0 scale) or above on at least 60 credit hours of college level courses; documentation of current professional liability insurance coverage; one transcript copy from each college or university attended; graduation from a state-approved and/or National League for Nursing accredited basic nursing program; three references; and a personal interview.

Students entering the bachelor of science in nursing completion program must complete the upper level division courses within five consecutive years. Core Curriculum requirements for the bachelor of science degree may be met prior to beginning the nursing course sequence.

Application forms and additional information are available in the nursing department in Kuhn Hall.

Readmission to the program will be contingent upon space available.

BACHELOR OF SCIENCE DEGREE IN NURSING

	Semester Hours
Core Curriculum Requirements (page 34) 51	30
(Some satisfied by required courses)	

Nursing Major Requirements 37-38	
Nurs 300	Process of Professional Nursing 3
Nurs 310	Nursing Management and Group Dynamics 3

Nurs 320	Nursing Implications in Health Care Ethics 3
Nurs 330	Advanced Health Assessment* 6
Nurs 400	Nursing Process in Community Health* 6
Nurs 410	Gerontological Nursing* 3
Nurs 415	Introduction to Nursing Research* 3
Nurs 498	Nursing Elective 3
Bio 308	Pathophysiology 4
Psy 320	Statistics 3
Edu 330	Structure of teaching * 2
Edu 331	Micro teaching* 2
OR	
MM 350	Principles of Management 3

67-68

*See course descriptions for prerequisites.

Suggested Order of Study

Bachelor of Science Degree
Major Code 3200
Nursing Major

JUNIOR YEAR

1st Semester		Hours
Course		
Social Science (Psy or Soc)*		3
CORE	(Math) **	3
Nurs 300	Process of Professional Nursing	3
Nurs 410	Gerontological Nursing	3
Bio 308	Human Pathophysiology	4
		16

2nd Semester

CORE	(Economics) **	3
Nurs 320	Nursing Implications in Health Care Ethics	3
Nurs 330	Advanced Health Assessment	6
CORE	(Composition) **	3
Lit OR Fine Art (Elective)*		3
		18

SENIOR YEAR

1st Semester		Hours
Nurs 400	Nursing Process in Community Health	6
Psy 320	Statistics	3
History OR	Political Science*	3
Educ 330	Structure of Teaching*	2
Educ 331	Microteaching*	2
OR		
MM 350	Principles of Management	3
		15-16

2nd Semester

Upper Division Nursing Elective*	3
Nurs 310	Nursing Management and Group Dynamics 3

Nurs 415	Introduction to Nursing Research	3
CORE*	Humanities Elective*	3
		15

*Courses which could be taken in advance of selection into the upper division nursing program.

**It is suggested that lower division courses be taken prior to matriculation into the upper division program.

For additional information contact:
Department of Nursing
Office: 210 Kuhn Hall
Phone: 625-9322

Preprofessional

ASSOCIATE OF ARTS DEGREE

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours.

Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Curriculum Requirements

Prepharmacy

Major Code 7007

Core Curriculum (page 34) * 14

Eng 101 and 102 English 6

Chem 101 and 102 General Chemistry ** 10

Math 150 Calculus ** 5

Social Sciences/Humanities ** 14

Bio 306 Human Physiology and Anatomy 5

Electives 10

64

* 28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

** UMKC School of Pharmacy minimum requirements

Paramedic Program

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology also offers certificate programs preparing the student to take State Certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Stu-

dents seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri State requirements.

ASSOCIATE OF ARTS REQUIREMENTS

Core Requirements

Bio 306 Human Physiology and Anatomy*	38
EMT Course	5
EMT-P Course	6
Electives	12
	3
	64

* Satisfies Core requirements

Radiologic Technology

FACULTY

Beals

The associate of science degree in radiologic technology combines Core Curriculum courses, supportive courses in the behavioral sciences and natural sciences, and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100, or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding

term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject-matter areas of business (accounting and secretarial procedures or business management), behavioral sciences, or natural science (concentration in either biology, chemistry, or physics).

ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY

Semester Hours

Core Requirements	25
Radiology Requirements	55
Rad 101 Introduction to Radiology*	3
Rad 111 Medical Terminology	3
Rad 121 Patient Care and Special Procedures in Radiology	3
Rad 132 Principles of Radiographic Exposure	3
Rad 142 Radiographic Positioning I	3
Rad 160 Film Critique	2
Rad 170 Radiologic Physics	3
Rad 180 Practicum in Radiology	4
Rad 241 Radiographic Positioning II	3
Rad 252 Radiographic Positioning III	3
Rad 282 Practicum in Radiology II	2
Rad 290 Practicum in Radiology III	4
Rad 299 Advanced Radiology	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Elementary Chemistry**	5
OR	
Phys 100 Fundamentals of Physical Science	5

The School of Technology

Psy 221	Psychology of Personal Adjustment	3
Bio 240	Radiation Biology*	3
		79

*See course descriptions for prerequisites.

**Satisfies General Education Requirement

Suggested Order of Study

Associate of Science Degree
Major Code 5207
Radiologic Technology Major

FRESHMAN YEAR

Fall Semester

Course		Hours
Bio 306	Human Physiology and Anatomy**	5
Rad 101	Intro to Radiology	3
Rad 170	Radiologic Physics	3
Rad 142	Radiographic Positioning I	3
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 P.E. Activity]	1
		16

Spring Semester

Math 130	College Algebra OR	3
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Principles of Radiographic Exposure	3
Rad 241	Radiographic Positioning II	3
CORE	[HPER 103 Lifetime Wellness]	2
		17

Summer*

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

SOPHOMORE YEAR

Fall Semester

Chem 100	Introductory Chemistry OR	5
Phys 100	Fundamentals of Physical Science	5
CORE	[Eng 101 Composition]	3
Psy 221	Psychology of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Positioning III	3
		17

Spring Semester

CORE	Hist 110 or PSc 120	3
CORE	[Comm 100 Oral Communications]	3
Rad 121	Patient Care and Special Procedures	3
Rad 282	Practicum in Radiology II	2
CORE	Literature or Fine Arts Elective	3
		17

Summer		
Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
		7

*Summer classes meet a minimum of 12 weeks.

**Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals
Office: 300 Kuhn Hall
Phone: 625-9323 or 625-9322
OR
Mr. James K. Maupin
Office: 113 Police Academy
Phone: 625-9328

SCHOOL OF TECHNOLOGY COURSE DESCRIPTIONS

AVIATION (Av)

Basic Pilot Training

15.0801-200 5 hrs. cr.
An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

COMPUTER SCIENCE (Comp)

Introduction to Data Processing (F, S)

11.0101-100 3 hrs. cr.
Illustrates the use of computers in facilitating the processing of information used by society in our daily lives. Looks at the hardware and software components of computer systems and how they work together. Considers number systems, basic problem analysis, logical block diagramming, and familiarization with higher-level programming languages. Satisfies the need for Computer Literacy for today's educated person. A televised version of this course similarly satisfies such a need. Three hrs. lecture per week.

Introduction to Microcomputer Use (F, S)

11.0201-105 3 hrs. cr.
Trains persons not necessarily employed as computer professionals who nevertheless have a need to use a microcomputer in their careers. Using a wide variety of packaged software, the

student is shown how the microcomputer can be put to best use in a variety of applications with a minimum of programming effort. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed.

Programming I (Pascal) (F, S)

11.0201-110 3 hrs. cr.
Introduction to the Pascal programming language. Provides a service for non-majors and an elective for majors. Problem analysis and program design will be emphasized. The student will learn syntax and language features through arrays and files. Applications will be varied and useful. Three hrs. lecture per week. Occasional supervised laboratories by arrangement.

Computing I (F, S)

11.0201-115 3 hrs. cr.
An introduction to: (1) computer vocabulary, (2) computer coding systems, (3) microcomputer hardware and software, (4) problem analysis and program design, and (5) program development and testing using BASIC. Students who have one unit of credit for a high school computer programming course, or the equivalent and 3 units of high school mathematics need not take this class unless they wish. Three hrs. lecture per week. Labs by arrangement.

FORTRAN (F, S)

11.0201-120 3 hrs. cr.
Introduction to: (1) mainframe hardware, (2) mainframe operating systems and program development software, (3) structured program design concepts and techniques, (4) program development and testing using a structured language. Three hrs. lecture per week. Open labs as required. This class provides an introduction to the FORTRAN language and is designed to include applications from mathematics, engineering, and statistics. Prerequisites: (1) Math 130 or higher, (2) 1 unit of high school programming or equivalent and three units of high school mathematics.

Advanced Personal Computing w/ Graphics (F, S)

11.0201-200 3 hrs. cr.
An introduction to: (1) knowledge, skills, and programming techniques which are needed in order to develop microcomputer software for business and industry; (2) techniques for designing and producing microcomputer graphics displays. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 115 or one unit of high school computer programming or equivalent knowledge and three units of high school mathematics.

Block Structured Programming (Demand)

11.0201-210 3 hrs. cr.
Introduces the practice of logical block structured, hierarchical design of programs with strong data typing and familiarizes the student with the modern languages which best support these concepts. The languages Pascal, Ada, PL/I, and Modula will be presented with particular emphasis and practice in the Pascal language. The ability to efficiently design and program significant tasks in Pascal will be the primary goal. Lecture three hrs. per week. Labs by arrangement. Prerequisite: Comp 110.

Report Program Generation (F, S)

11.0201-230 3 hrs. cr.
Introduces one or more programming languages which are designed for quick and efficient production of business reports. Course content will include language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 110 or consent of instructor.

Business Data Processing Techniques (F)

11.0201-234 3 hrs. cr.
Methods and techniques of solving business related problems using a business oriented language (COBOL) on a digital computer, including payroll systems, inventory control, billing systems, sorting techniques, and file maintenance. Three hrs. lecture per week with open labs to complete assignments. Prerequisite: Comp 110 or consent of instructor.

Statistical Computer Applications (F, S)

11.0201-240 3 hrs. cr.
A continuation of programming technique/development in a procedural language. Principles presented in previous courses will be employed in this course. Emphasis on non-routine types of applications, including quality control, statistics, curve fitting, forecasting, etc. Three hrs. lecture per week, open lab as required. Prerequisite: Comp 110 or consent of instructor.

Selected Topics in Computer Science (Demand)

07.0305-298 1-8 hrs. cr.
Special topic or topics not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Principles of Digital Computing (F, S)

11.0401-301 3 hrs. cr.
Provides the necessary foundation for the continuing study of computing machines. Includes concepts of notation; binary system; systems conversion; Boolean algebra; Karnaugh map simplifications; computer architecture; micro, machine, and assembler programming; data structures; and simple parsing. Three hrs. of lecture per week, labs by arrangement. Prerequisite: Comp 110 or consent of instructor.

Systems Concepts and Data Communications (F, S)

11.0501-302 3 hrs. cr.
Introduction to design characteristics of the most common types of on-line business computer applications. Includes the study of the components of the computer information system. Data communications comprises a significant portion of the course. Three hrs. lecture per week. Prerequisite: Comp 230 or Comp 234.

COMPUTER/ INFORMATION SCIENCE (CIS)

Microcomputer Applications and Management (F, S)

11.0601-305 3 hrs. cr.
Microcomputers, their operating systems, and representative, "user friendly" software packages with applications to various fields. Emphasis on making wise choices of equipment, applications packages, and appropriate applications. Primarily for non-computer science majors, though majors and minors may use it as a professional or general elective. Credit may not be allowed for both GB 237, Managerial D.P., and this course. Three hrs. lecture per week. Labs by arrangement. Prerequisites: Math 110 or higher and upper division standing or consent of instructor.

Operations Modeling (F)

11.0401-320 3 hrs. cr.
Analytical and simulation techniques used in the modeling of business operations for the purpose of managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding, portfolio analysis, etc. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 110 and Math 310, 361, or GB 321 and upper division standing, or consent of instructor.

Assembler Language (F)

11.0201-330 3 hrs. cr.
An introduction to a computer's low level programming. Topics will include: an introduction to assembler language format, decimal and integer arithmetic, editing, and execution instructions. Also, debugging program construction will be applied. Numerous problems will be assigned. Three hrs. lecture per week. Prerequisite: One 200-level programming class.

Advanced Structured COBOL (S)

11.0201-334 3 hrs. cr.
Emphasis on on-line or real-time programming of business applications. File creation and

maintenance, structured methodologies and advanced features of COBOL are major topics. Three hrs. lecture per week, free lab time as student requires. Prerequisite: Comp 234 Bus. DP Tech (COBOL).

Analog Methodology w/ Digit Computers (S)

11.9999-340 3 hrs. cr.
Simple methods and techniques of solving systems of simultaneous differential equations on digital computers. Particularly appropriate for mathematics, physics, and engineering transfer students. Includes data flow model techniques, the simulation of non-linear functions, block diagramming of systems, familiarization with La Place methods. Various design problems of engineering, mathematics and physics applications and models of biological and social systems will be treated. Three hrs. lecture per week. Prerequisite: Math 250.

Teaching Computer Science in Secondary School (S)

13.1399-346 2 hrs. cr.
An introduction to instructional planning, materials selection, and methods of teaching Computer Science/Data Processing subjects in Secondary School. Part of the Professional Semester.

Data Structures and Techniques (S)

11.0401-350 3 hrs. cr.
Basic concepts of information and techniques for operating on data/program structures. Develops concepts and use of program control constructs, information structures, files, searching, sorting, updating, linking, and attendant program documentation, debugging, and testing. Prerequisite: Comp 210 and upper division standing or consent of instructor. Three hrs. lecture per week.

Computer Colloquium (F, S)

11.0401-400 1 hr. cr.
Individual student presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best available software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hrs. per week for 1 hr. credit.

Internship in Computer Information Science (Demand)

11.0401-401 3-5 hrs. cr.
A limited number of Computer Information Science students may serve an internship of 10 to 15 hours per week for up to 15 weeks. A minimum of 40 hours of experience as an intern is required for each semester hour of credit. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in program-

The School of Technology

ming and/or systems analysis and design to supplement their course work. The on-site work will be supervised by a professional employee of the firm and overseen by a Missouri Southern faculty member. Prerequisites: Junior or senior standing, department approval, overall GPA 3.0, and a CIS GPA of 3.5.

Systems Analysis and Design (F)

11.0501-410 3 hrs. cr.
Provides supervised and practical experience in the analysis and design of computer based information systems with emphasis in the area of basic design tools and objectives, documentation, hardware/software selection, system concepts and project management. Three hrs. lecture per week. Open lab as required. Prerequisites: Comp 302.

Database Design and Implementation (S)

11.0501-425 3 hrs. cr.
An in-depth look at the major database architectures that are applied in many of the commercial DBMS packages. The major components of a DBMS such as query languages, data dictionaries, security systems, utilities, data definition languages (DDL), and data manipulation languages (DML) are also covered. Three hrs. lecture per week, open labs as required. Prerequisites: Comp 234 and CIS 410.

Operating System Software (F)

11.0401-450 3 hrs. cr.
A working view of hardware, operating software, and firmware. Examines the role of JCL in a data processing environment. Systems for filing, managing data, and communicating are studied as well as theory of models of data base management systems; database normalization, database techniques, and other DBMS topics and network concepts. Three hrs. lecture per week. Prerequisites: A programming course and CIS 350 or department head's permission.

Compilers (S)

11.0401-460 3 hrs. cr.
Introduction to the building blocks of a compiler: lexical, syntactic, and semantic analysis, definition of the grammar, symbol table manipulation, storage allocation, and code generation. Three hrs. lecture per week. Prerequisite: CIS 330.

Seminar in Computer Science (demand)

11.0305-498 1-3 hrs. cr.
For students vocationally oriented toward automated data processing. Course content will depend on the needs of the attendees. Prerequisites: 60 hrs. college credit with a GPA of 3.0 or permission of department head.

Independent Study (demand)

11.0305-499 1-3 hrs. cr.
An independent study course structured by advisor with approval of department head. Prerequisite: 60 hrs. credit with a GPA of 3.0.

Registration in the course must be approved by advisor, department head, and school dean.

CRIMINAL JUSTICE ADMINISTRATION (CJAd)

Introduction to Security (S)

43.0103-130 3 hrs. cr.
Overview of the security industry and its role in loss prevention. Public vs private security roles for retail business, industrial, and governmental protection. Basic principles such as target hardening and current problems.

Basic Photography (F)

43.0605-210 3 hrs. cr.
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints, and enlarging.

Physical Security (S)

43.0103-230 3 hrs. cr.
Physical aspects of the security industry and its role in loss prevention for retail business, industrial, and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection, and survey techniques.

Legal and Technical Aspects of Firearms

43.0103-260 3 hrs. cr.
History and development of firearms. The nomenclature of the most commonly used police firearms, and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership, and use. Three hrs. lecture per week. Additional lab time arranged.

Special Topics in Criminal Justice Administration (Demand)

43.0103-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of Criminal Justice Administration. Precise topics are announced, and prerequisites are stipulated in the course syllabus.

Criminal Investigation II (S)

43.0103-300 3 hrs. cr.
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.

Traffic Accident Investigation and Controls (F)

43.0103-310 3 hrs. cr.
Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection, and evaluation of physical evidence reporting.

Probation and Parole (S)

43.0103-320 2 hrs. cr.
Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects.

Loss Prevention Techniques (F)

43.0103-330 3 hrs. cr.
Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems, and utilities. Prerequisites: CJAd 130.

Administration of Security Systems (Demand)

43.0103-331 3 hrs. cr.
The security administrator's role in business, industrial, and governmental protection. Organizing, training, managing, and designing security programs. Prerequisites: CJAd 130.

Basic Color Photography (S)

43.0605-340 3 hrs. cr.
Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

Fish and Game Enforcement (S)

43.0103-350 3 hrs. cr.
Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

Homicide Investigation (Demand)

43.0103-400 3 hrs. cr.
Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal, or criminal cause. Prerequisite: LE 200 or permission.

Juvenile Procedures (F)

43.0103-410 3 hrs. cr.
Juvenile and family court procedures and substantive law as it is applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody, and development of the case. Prerequisite: LE 210 or consent.

Juvenile Corrections (S)

43.0103-411 3 hrs. cr.
Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws, and management principles of juvenile correctional institutions. Prerequisite: Soc 110.

Correctional Practices (F)

43.0103-412 3 hrs. cr.
History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

Criminal Evidence (S)

43.0103-450 3 hrs. cr.
Rules of evidence, admissibility, presumptions, inferences, burden of proof, and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

Internship in Criminal Justice (Arr)

43.0103-490 6 hrs. cr.
Extensive practical experience with an area Criminal Justice Agency, subject to individual committee approval. Not open to those who have taken LE 190. Prerequisite: Junior standing CJAd majors and consent of instructor.

Seminar in Criminal Justice (Demand)

43.0103-498 1-3 hrs. cr.
A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: Consent of instructor.

Independent Study in Criminal Justice (Arr)

43.0199-499 1-3 hrs. cr.
Individually directed study for advanced majors in area of criminal justice selected with advisor approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or consent.

DENTAL HYGIENE (DH)

Fundamentals of Dental Hygiene I (F)

17.0102-101 4 hrs. cr.
Introduction to the fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

Fundamentals of Dental Hygiene II (S)

17.0102-102 4 hrs. cr.
A continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with a minimum grade of "C."

Dental Morphology (F)

17.0102-140 1 hr. cr.
Detailed study of the morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

Oral Histology and Embryology (F)

17.0102-150 3 hrs. cr.
Study of the gross and microscopic development of the teeth, supportive structures of the teeth, and embryology and anatomy of the head and neck region. Two hrs. lecture, 3 hrs. lab per week.

Dental Radiology (S)

17.0102-160 2 hrs. cr.
Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 3 hrs. lab per week.

Clinical Dental Hygiene I (Summer)

17.0102-190 3 hrs. cr.
Introduction to the clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, 1 seminar, and 16 hrs. lab per week. Prerequisite: DH 102 with a minimum grade of "C."

Dental Health Education (F)

17.0102-200 3 hrs. cr.
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups, and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

Perio-Pathology (Summer)

17.0102-210 3 hrs. cr.
Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation, and immunity. Etiology, classification, treatment, and prevention of periodontal disease is stressed. Six hrs. lecture per week.

Dental Materials (S)

17.0102-220 3 hrs. cr.
Information about various dental materials. Students learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene I with a "C" or above or with instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

Clinical Dental Hygiene II (F)

17.0102-290 5 hrs. cr.
Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C."

Nutrition (S)

17.0102-310 2 hrs. cr.
Nutrition and diet as related to dental health, biochemistry of digestion, and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

Pharmacology (F)

17.0102-320 2 hrs. cr.
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action, and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

Ethics and Community Dentistry (S)

17.0102-330 3 hrs. cr.
Professional ethics and commitment, professional organizations, state practice acts, and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy, health legislation, federal, state, and local health programs, needs and demands for dental care and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with a minimum grade of "C."

Clinical Dental Hygiene III (S)

17.0102-390 5 hrs. cr.
Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with a minimum grade of "C."

COMPUTER AIDED DRAFTING AND DESIGN (CADD)

Introductory Drafting (F, S)

48.0105-110 3 hrs. cr.
Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries, and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

Intro to Computer Aided Drafting (F, S)

48.0105-115 2 hrs. cr.
Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who

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have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with the consent of instructor. Lecture 1 hr. per week, open labs as required.

Descriptive Geometry (S)

48.0105-120 3 hrs. cr.
Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

Machine Drafting (S)

48.0105-130 3 hrs. cr.
Detail and assembly drawings of machines, and machine elements. Survey of the use of machine tools, processes, and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

Tool Design (Demand)

48.0105-202 3 hrs. cr.
Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 130.

Mechanical Design (F)

48.0105-204 3 hrs. cr.
Principles of mechanical design with emphasis on the proper selection, function, and graphical representation of common machine components. Formulas, vendor catalogs, and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

Technical Illustration (S)

48.0105-210 3 hrs. cr.
Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views, and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems, and air brushes will be introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Architectural Drafting (S)

48.0105-220 3 hrs. cr.
Principles of architectural design, preparing sets of working drawings, building details, and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 four hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Survey & Mapping (F)

15.0203-230 3 hrs. cr.
Theory, principles, and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations, and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Computer Aided Drafting (F, S)

48.0105-260 3 hrs. cr.
Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD System to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115, and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220, or CADD 230. A student having industrial drafting experience may be admitted with the consent of instructor if CADD 115 or equivalent industrial training course has been completed.

Internship in Drafting & Design (Demand)

48.0105-490 1-8 hrs. cr.
A structured work experience in Drafting/Design at an institution, facility, or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of drafting and committee approval.

Special Topics Draft/Des (Demand)

48.0105-298 1-8 hrs. cr.
A special topic or topics not normally included in another drafting and design course. Prerequisites determined by the department and stipulated in a course syllabus.

Seminar in Drafting & Design (Demand)

48.0105-498 1-3 hrs. cr.
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology.

Independent Study in Drafting & Design (Demand)

48.0105-499 1-3 hrs. cr.
Individually directed reading, research, and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration, and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head, and school dean.

ENVIRONMENTAL HEALTH TECHNOLOGY (EHT)

Man and Environment (F, S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of biology including pollution, land use, population, energy, and organismic responses to these problems. Cellular, systemic, and genetic mechanisms are included. Three lectures, one 2 hr. lab per week. Fulfills core requirement for biology.

Selected Topics in Environmental Health

18.0799-298 1-8 hrs. cr.
Special topics in environmental health not normally included in another course. Prerequisite: EH 110 or Bio 101, Bio 112 and Bio 122.

Earth Environments (Geol 300)

40.0601-300 4 hrs. cr.
Describes aspects of the solid earth, the liquid environments of earth and our atmosphere. Interactions of these and their relationships to human society. Prerequisite: Phys 100.

Environmental Biology (F)

26.0603-312 4 hrs. cr.
Environmental factors and their interactions with living things. Emphasis on human ecology and wise natural resource utilization. Three lectures and one 2 hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110, or permission of instructor.

Environmental Health (S)

26.0704-370 4 hrs. cr.
Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 211 or 231, junior standing in science or permission of instructor.

Internship in Environmental Health (F, S)

18.0799-450 1-8 hrs. cr.
Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator,

the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in the environmental health or biology curricula.

Seminar in Environmental Health

18.0799-498 1-3 hrs. cr.
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisite: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology, or permission of instructor.

Problems in Environmental Health

18.0799-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of supervising instructor, coordinator, department head, and school dean. Prerequisite: a minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

LAW ENFORCEMENT (LE)

Introduction to Law Enforcement (F, S)

43.0107-100 3 hrs. cr.
Municipal, county, state, and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

Police Organization and Administration (F)

43.0107-110 2 hrs. cr.
Management operations, communications, budgeting, recruiting, training, and public relations as they pertain to the local and state law enforcement agencies.

Interview and Report Writing (S)

43.0107-150 2 hrs. cr.
The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

Basic Police Academy (F, S, Summer)

43.0107-180 6 hrs. cr.
The basic training course for new law enforcement officers in Missouri, approved by P.O. S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports, defensive tactics, investigation, and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110, and LE 150, or permission. (Additional lab fee for course)

Criminal Investigation I (F)

43.0107-200 3 hrs. cr.
Fundamentals of criminal investigation techniques including crime scene procedures, burglary, and death investigation. Includes collection, preservation, identification of evidence, and overview of crime lab procedures.

Criminal Procedures (F)

43.0107-210 3 hrs. cr.
Criminal law procedures from arrest through trial, search and seizure, laws of evidence, review of pertinent supreme court decisions, and related topics. The order of criminal trial.

Criminal Law (S)

43.0107-250 3 hrs. cr.
Criminal law purposes and functions, laws concerning arrest, search, and seizure. Rights and duties of officers and citizens in relation to local, state, and federal laws. The development, application, and enforcement of laws.

Police Supervision and Management

43.0107-290 3 hrs. cr.
Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare, and problem-solving leadership.

Special Topics in Law Enforcement (Demand)

43.0107-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites will be stipulated in the course syllabus.

COMPUTER ASSISTED MANUFACTURING TECHNOLOGY (CAM)

Intro to Machine Tool Processes (F, S)

48.0503-100 4 hrs. cr.
The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blue print reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. Two hrs. lecture, 6 hrs. lab per week.

Intermediate Machine Tool Processes (F, S)

48.0503-105 4 hrs. cr.
An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry, and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAM 100, CADD 110, Math 130, or consent of instructor.

Inspection and Gaging (S)

48.0503-160 2 hrs. cr.
Inspection, gaging, and precision measurement procedures utilizing mechanical, electronic, and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1 hr. lecture, one 2 hr. lab per week. Prerequisites: CAM 100, CADD 110, Math 130, and Math 112, or consent of instructor.

Advanced Machine Tool Processes (F, S)

48.0503-200 4 hrs. cr.
An introduction to the design and fabrication of custom machine tools, molds, jigs, fixtures, and dies. Subjects covered will include: prototype design, dye construction, electrical discharge machining, gears and gearing, special cutting tools, and precision tool-making. Commercial computer software will be used to introduce and apply the principles of tool design and selection in modern manufacturing. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAM 105, CADD 130, Math 130, and Math 112, or consent of instructor.

Computer Numerical Control (F, S)

48.0503-250 4 hrs. cr.
Introduction to the history and fundamentals of computer numerical control machining. Topics covered will include absolute and incremental coordinate systems, tool geometry and offsets, feeds and speeds with related blueprint reading and mathematics as applied to computer numerical control programming. Students will write and edit programs on microcomputers and machine parts on computer controlled machines. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAM 200, Math 130, and Math 112, or consent of instructor.

Fundamentals of Metallurgy (F)

48.0503-260 3 hrs. cr.
Introduction to physical metallurgy. Theory and application of principles for identifying, producing, conditioning and testing of ferrous and nonferrous metals. Topics include heat treating, machining, welding, casting, and forming of metals. Laboratory activities involve manual and computer assisted testing and metallographic examination. One 1 hr. lecture, two 2 hr. labs per week.

Production Planning and Control (S)

48.0503-290 3 hrs. cr.
A survey of the essential steps for effective planning and control of manufacturing production. Emphasis on process identification, process sheets, and scheduling with related costs. Activities that influence the production planning and control function will be surveyed including quality control, safety, plant layout, inventory control, material handling, and justification of robots and automated equipment.

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Commercial computer software will be used throughout the course to strengthen and expand the principles taught. Three hrs. lecture per week. Prerequisite: CAM 200, Comp 115, or consent of instructor.

Selected Topics in Manufacturing Technology (Demand)

48.0503-298 1-8 hrs. cr.
Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

Internship in Manufacturing Technology (Demand)

48.0503-490 1-8 hrs. cr.
A structured work experience in manufacturing technology at an institution, facility, or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. The on-site professional will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAM courses and permission of a committee.

Seminar in Manufacturing Technology (Demand)

48.0503-498 1-3 hrs. cr.
Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management technology or an associate degree in manufacturing technology.

Independent Study in Manufacturing Technology (Demand)

48.0503-499 1-3 hrs. cr.
Individually directed reading, research, and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of the instructor, department head, and school dean.

MEDICAL TECHNOLOGY (MT)

Introduction to Medical Technology (F, S)

18.0901-200 1 hr. cr.
A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, mi-

crobiology, serology, radioimmunoassay, and chemistry.

Clinical Chemistry (F)

18.0901-401 10 hrs. cr.
Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

Clinical Microscopy (S)

18.0901-402 1 hr. cr.
Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes. One hr. lecture, clinic by arrangement.

Hematology (F)

18.0901-403 6 hrs. cr.
The cellular elements of blood and bone marrow; theory of cell production, release, and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation, and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

Serology-Immunology (S)

18.0901-404 3 hrs. cr.
The science of immunity including antibody development, principles of antigen-antibody interactions, and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

Clinical Microbiology (S)

18.0901-405 7 hrs. cr.
Sterile technique, methods of handling and inoculating specimens containing pathogenic micro-organisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology, and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

Blood Bank-Immunohematology (S)

18.0901-406 3 hrs. cr.
A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening, and phenotyping: Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

Special Topics in Medical Technology (S)

18.0901-407 2 hrs. cr.
Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development and principles, and techniques of the instructional process. Lecture and labs to be arranged.

MILITARY SCIENCE (MS)

Adventure Training (F)

28.0301-111 2 hrs. cr.
Basic rifle marksmanship, camping, mountaineering, rappelling, map reading, and survival. An overview of Army ROTC and job opportunities throughout the Army. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Survival Skills (S)

28.0301-112 2 hrs. cr.
Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Contemporary Military Subjects (F)

28.0301-121 2 hrs. cr.
An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, one hr. lab per week. Participants incur no military obligation by taking this course.

Individual Military Skills (S)

28.0301-122 2 hrs. cr.
Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs, and additional leadership experiences. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Basic ROTC Summer Practicum (Summer)

28.0301-190 2 or 4 hrs. cr.
Designed for freshmen and sophomores desiring to enroll in Advanced ROTC. A varied number of credits are available depending on the needs of the students. Covers mountaineering, map reading, land navigation, survival, physical conditioning, drill and ceremonies, organization of the Army, marksmanship, and other basic military skills. Participants incur no military obligation by taking this course.

Seminar in Military Science (ROTC Basic Camp) (Summer)

28.0301-298 2-8 hrs. cr.
An in-depth study of the military science courses normally taught on college campus during the freshman and sophomore years, including tactics, marksmanship, communication, physical conditioning, and practical leadership experience. The six-week course is taught at Fort Knox, KY, with transportation

and room and board plus a salary provided by the Army.

Leadership and Management I (F)

28.0301-301 3 hrs. cr.
Leadership, its principles, responsibilities, and techniques. Functions of the leader, leadership (including management of military assets), introduction to leadership theory and practice and military laws. Included is a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Fundamentals and Dynamics of Military Team I (S)

28.0301-302 3 hrs. cr.
Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

United States Military Experience 1775 to Present (S)

(SEE HIST 400)
28.0301-400 3 hrs. cr.
A broad view of military history as concerned with the role of force on land, sea, or air against foreign governments and domestic dissidents. Emphasizes military policy, organization, and technology, relating them to political, social, and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

Fundamentals and Dynamics of Military Team II (F)

28.0301-411 3 hrs. cr.
Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics; leadership theory and practice. Also included is a program of directed readings in military history, a physical training program, and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Leadership and Management II (S)

28.0301-412 3 hrs. cr.
Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

NURSING - ASSOCIATE DEGREE (NUR)

Introduction to Nursing Process (F)

18.1101-100 6 hrs. cr.
An introduction to nursing, roles of the associate degree nurse, and application of the nursing process with emphasis on promotion of health. The course is organized around mobility, body processes, body defenses, safety, and security. Emphasis on the uniqueness of each individual through the study of biopsychosocial development of the individual and family, cultural diversity, and the communication process. An introduction to nursing history, ethical and legal aspects, pharmacology, and nutrition. Students are expected to develop proficiency in the basic nursing skills.

Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPN's will be exempt from part of the clinical laboratory experience. Clinical experience sufficient to develop skill in the use of the nursing process will be assigned. Four hrs. of lecture, 8 hrs. of classroom and clinical laboratory including pre- and post-conferences.

Nursing Process with the Developing Family (S)

18.1101-110 9 hrs. cr.
Individual and family development from conception through adolescence. Following the initial emphasis on health, the nursing process is applied to complications of child-bearing and common illnesses of childhood.

Organization is similar to Nursing 100. The student is expected to organize care of selected patients. Communication skills are applied in assisting and teaching the family. Related drug, nutritional, and rehabilitation interventions are included. Historical highlights, legislation, trends, and cultural implications are presented. Five hrs. lecture, 12 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nursing 100 and Bio 306 with minimum grade of "C."

Nursing Process in Psychiatric-Mental Health Nursing (Summer)

18.1101-130 4 hrs. cr.
The promotion of mental health as well as application of the nursing process in the care of the client in psychiatric-mental health settings. Course content places increased emphasis on communication. Use of therapeutic communication and the nurse-patient relationship are emphasized. Theories of personality development, developmental crisis, and crisis intervention methods for the individual and family are introduced. Pharmacology, legal and ethical issues, and related diet therapy are integrated. Four hrs. lecture, 12 hrs. clinical laboratory, including pre- and post-conference. Prerequisite:

Nursing 110 with minimum grade of "C." Summer course only.

Nursing Process with Adults I (F)

18.1101-220 9 hrs. cr.
Applies the nursing process to the adult client and family who need assistance to achieve high-level wellness. Developmental aspects of the middle years are presented. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the A.D. nurse. Communication and health teaching with the adult are emphasized. Theory content is presented as interference with body processes, altered body defenses, altered mobility, and jeopardized safety. Legal, cultural, pharmacological, nutritional, and rehabilitational aspects are an integral part of the course. Five hrs. lecture, 12 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nursing 130 with minimum grade of "C."

Nursing Process with Adults II (S)

18.1101-240 9 hrs. cr.
A continuation of Nursing 220 with application of the nursing process in the care of patients in more acute care areas. The student assumes a more active role as a member of the health team by increasing utilization of organizational and managerial skills. Developmental aspects of aging are presented. The content is organized as identified in Nursing 220. Four hrs. lecture, 15 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nursing 220 with minimum grade of "C."

Selected Topics in Nursing (Demand)

18.1101-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be determined by the department of nursing and stipulated in a syllabus of the course.

NURSING - BACCALAUREATE DEGREE (NUR)

Process of Professional Nursing (F)

18.1120-300 3 hrs. cr.
Focus on the knowledge and skills needed to assume the role of the professional nurse. Core content includes theory of the nursing process, systems theory, adaptation, legal and ethical issues, and professional behavior. Provides an opportunity for the socialization of the learner in transition from the secondary level to the primary level of nursing practice. Prerequisite: RN status and approval of department. Co-requisites: Nursing 410 and Bio 308. Three hrs. lecture.

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Nursing Management and Group Dynamics (F)

18.1120-310 3 hrs. cr.
Relate organizational theory to the delivery of health care services with emphasis on management principles and processes. Communication skills, group dynamics, and leadership abilities will be analyzed. The learner will integrate didactic content with group experiences to further develop communication, problem-solving, and leadership skills. Prerequisite: RN status and approval of department. Corequisites: Nursing 300 and Bio 308. Three hrs. lecture.

Nursing Implications in Health Care Ethics (S)

18.1120-320 3 hrs. cr.
Seminar investigates ethical issues which confront the professional nurse. Implications for the role of the nurse will be drawn from health care ethics. Consideration will be given to ethics as a concept, traditional ethical approaches, constraints in nursing practice and selected ethical issues. Three hrs. lecture. Prerequisites: R.N. status and approval of department.

Advanced Health Assessment (S)

18.1120-330 6 hrs. cr.
Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to allow the learner to refine assessment skills. The learner will be guided in using problem solving skills in the care of patients with a complexity of health problems. Prerequisites: Nursing 300, 410, Bio 308. Three hrs. lecture, 9 hours clinical lab including pre- and post-conferences.

Nursing Process in Community Health (F)

18.1120-400 6 hrs. cr.
Concepts and methods for assessment of community strengths and health needs will be analyzed. An interactive process with community residents and health care providers is utilized. Recommendations are established for improved community health. Course requirements include classroom seminar and community clinical laboratory experiences. Prerequisites: Nursing 300, 410, and 330. Three hrs. lecture, 9 hrs. clinical laboratory, including conferences.

Gerontological Nursing (S)

18.1120-410 3 hrs. cr.
Focuses on the health care needs of the older adult. The nursing process will be utilized as a framework of study for preparation of the professional nurse to be effective in the care of the elderly. Corequisites: Nursing 300 and Bio 308 or permission of instructor. Three hrs. lecture.

Introduction to Nursing Research (S)

18.1120-415 3 hrs. cr.
Provides guided investigation of research de-

sign, methodology, sampling, conclusions, and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing Research builds upon the knowledge and skills acquired in the statistics course. Prerequisites: Statistics, N-300, N-330, N-400, N-410.

Seminar in Nursing (Demand)

18.1120-498 1-3 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Independent Study (Demand)

18.1120-499 1-3 hrs. cr.
An independent study course structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field. Registration in the course must be approved by advisor, department head, and school dean. Minimum of 3.0 GPA required.

PARAMEDIC PROGRAM (EMT-P)

EMT-P (Paramedic) (Demand)

17.9999-295 12 hrs. cr.
Classroom instruction supplemented by clinical observation and experience. The classroom phase consists of three 3 hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent, and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this course. (For additional information, contact the Continuing Education Office.)

RADIOLOGIC TECHNOLOGY (Rad)

Introduction to Radiology

17.0209-101 3 hrs. cr.
An introduction to the radiology department, including basic procedures and equipment. Includes organization, function, and supervision of a Radiology Department with a history of X-ray, ethical principles, and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or co-requisite Bio 306.

Medical Terminology

17.0209-111 3 hrs. cr.
Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes, and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Patient Care and Special Procedures in Radiology

17.0209-121 3 hrs. cr.
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media, special attention is given to the visualization of the digestive, urinary, and reproductive organs. Three hrs. lecture per week.

Principles of Radiographic Exposure

17.0209-132 3 hrs. cr.
The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and dark room chemistry and techniques. Three hrs. lecture per week.

Radiographic Positioning I

17.0209-142 3 hrs. cr.
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab, and 12 hrs. clinic per week.

Film Critique

17.0209-160 2 hrs. cr.
Develops a student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Course also includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

Radiologic Physics

17.0209-170 3 hrs. cr.
The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry, and basic equipment maintenance. Three hrs. lecture per week.

Practicum in Radiology I

17.0209-180 4 hrs. cr.
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy, and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

Radiographic Positioning II

17.0209-241 3 hrs. cr.
An in-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection, and skull anatomy review in-

cluded. Two hrs. lecture, 3 hrs. lab, and 20 hrs. clinic per week.

Radiographic Positioning III

17.0209-252 3 hrs. cr.
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

Practicum in Radiology II

17.0209-282 2 hrs. cr.
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

Practicum in Radiology III

17.0209-290 4 hrs. cr.
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

Advanced Radiology

17.0209-299 3 hrs. cr.
A comprehensive review of the field of radiology including innovations, trends, and anticipated advancements in the field. Three hrs. lecture per week.

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research. It also provides a brief overview of the methodology used in the study.

2. The second part of the report is a detailed description of the methodology used in the study. It discusses the data sources, the data collection methods, and the data analysis methods. It also provides a detailed description of the research design and the research instruments used in the study.

3. The third part of the report is a detailed description of the results of the study. It discusses the findings of the study and the conclusions drawn from the results. It also provides a detailed description of the statistical analysis used in the study and the results of the statistical tests.

4. The fourth part of the report is a detailed description of the conclusions drawn from the study. It discusses the implications of the findings and the recommendations for future research. It also provides a detailed description of the limitations of the study and the strengths of the study.

5. The fifth part of the report is a detailed description of the references used in the study. It lists the books, articles, and other sources used in the study and provides a detailed description of the relevance of each source to the study.

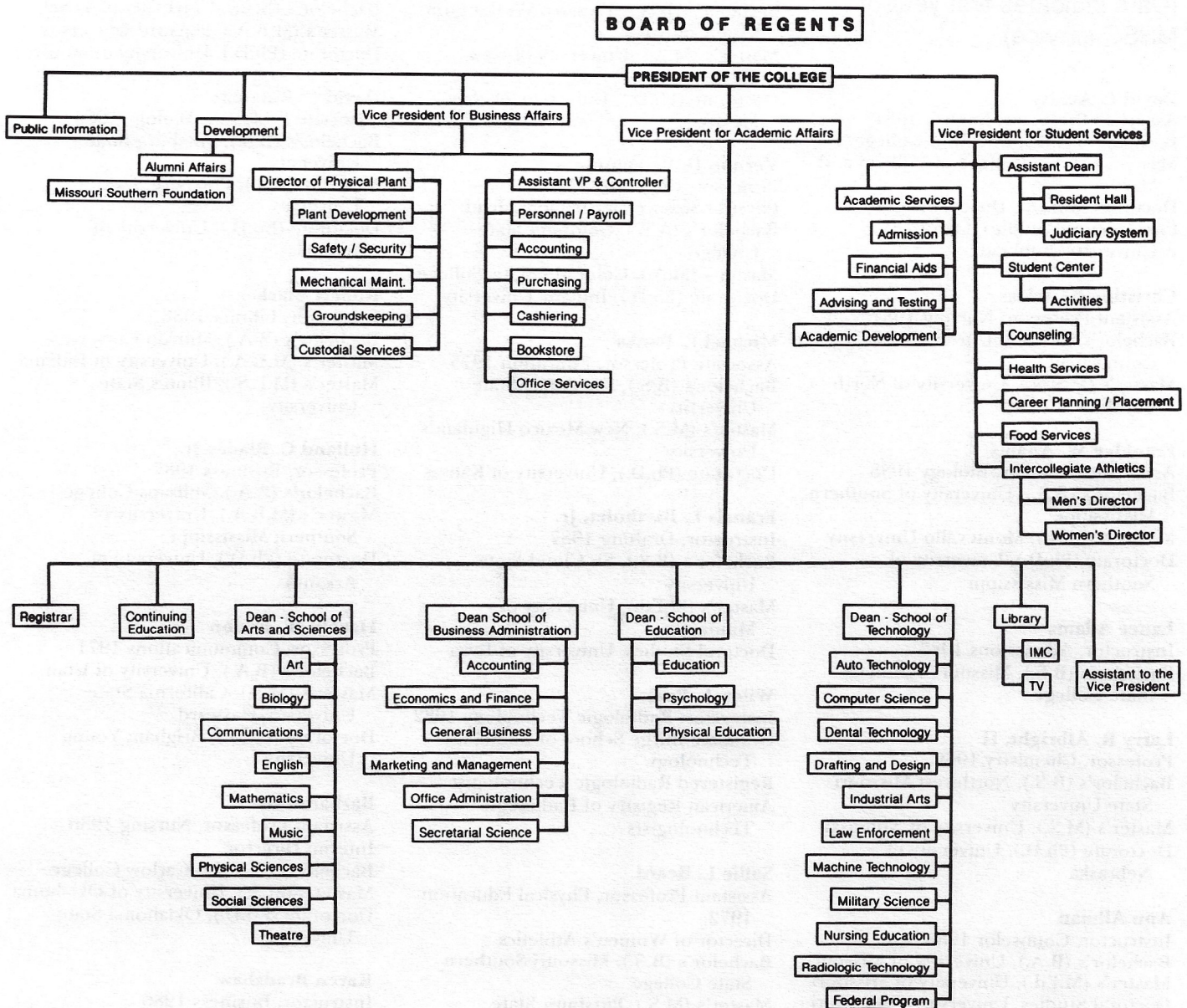
6. The sixth part of the report is a detailed description of the appendices used in the study. It lists the tables, figures, and other appendices used in the study and provides a detailed description of the relevance of each appendix to the study.

Administration & Faculty

Administration & Faculty

President	Julio S. Leon
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Assistant to the Vice President for Academic Affairs	Delores Honey
Vice President for Business Affairs	John W. Tiede
Controller & Assistant Vice President for Business Affairs	Sidney S. Shouse
Vice President for Student Services	Glenn D. Dolence
Dean, School of Arts and Sciences	Ray A. Malzahn
Dean, School of Business Administration	Robert C. Brown
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Dean, School of Education and Psychology	Edward P. Merryman
Dean, School of Technology	James K. Maupin
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Head, Department of Communications	Richard W. Massa
Head, Department of Education	James V. Sandrin
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Head, Department of Fine Arts	Pete Havelly
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Director of Public Information	Gwen E. Hunt
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Director of Computer Center	J. Steve Earney
Director of Student Life	Douglas M. Carnahan
College Nurse	Irma J. Hartley
Director of Men's Athletics	James L. Frazier
Director of Placement	Nancy Disharoon
Director of Women's Athletics	Sallie L. Beard
Director of Admissions	Richard D. Humphrey
Learning Center Coordinator	Myrna L. Dolence
Director of Student Financial Aid	James E. Gilbert
Bookstore Manager	Charles D. Moss
Director of Office Services	Ron Foster
Director of Safety & Security	Bill Boyer
Personnel Records	Douglas Coen
Purchasing Agent	David Throop
Director of Physical Plant	Howard Dugan

COLLEGE ORGANIZATIONAL CHART



Administration & Faculty

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(Date indicates first year of MSSC service)

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Master's (M.A.), Montevallo University
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Master's (M.S.), University of Nebraska
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Master's (M.A.), University of Iowa (English)
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Bachelor's (B.A.), Northwestern State University of Louisiana
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Professor, Sociology 1967
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), Oklahoma State University
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Fine Arts Department Head, Director of Band
Bachelor's (B.M.E.), Central Oklahoma State University
Master's (M.M.E.), Central Oklahoma State University
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Graduate Study, Pittsburg State
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Master's (M.M.E.), University of
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Doctorate (Ed.D.), University of
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Associate Professor, History 1962
Bachelor's (A.B.), Southwestern College
Master's (M.A.), Pittsburg State
University
Doctorate (Ed.D.), Oklahoma State
University

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Assistant Professor, Assistant to Vice
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Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.Ed.), University of Missouri
Specialist (Ed.S.), Pittsburg State
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Admissions 1968
Bachelor's (B.S.), Pittsburg State
University
Master's (M.S.), Pittsburg State
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Assistant Professor, Theatre 1963
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.), University of Arkansas
Graduate Study, University of Arkansas

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Master's (M.A.), University of Arkansas
Graduate Study, University of Colorado

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Bachelor's (B.A.), Oberlin College
Master's (M.A.), Western Michigan
University
Master's (M.S.L.), Western Michigan
University
Specialist (S.A.), Western Michigan
University

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Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.), California State
University-Northridge
Doctorate (Ed.D.), University of Missouri

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Master's (M.A.), University of Northern
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Doctorate (Ph.D.), Rutgers State
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Bachelor's (B.S.N.), University of
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Master's (M.S.N.), University of
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Bachelor's (B.A.), University of
Raiputana, India
Master's (M.A.), University of Raiputana,
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Master's (M.A.), University of Texas, El
Paso
Doctorate (Ph.D.), University of Missouri

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Master's (M.Ed.), Mississippi State
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Bachelor's (B.S.), Pittsburg State
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Graduate Study, Hays State, Oregon
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University, Duke University

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Bachelor's (B.S.), Missouri Western State
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Master's (M.A.), Southwest Missouri
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Certified Data Processor (CDP)
Graduate Study, University of Missouri
at Kansas City, Central State
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Master's (M.L.S.), University of
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Doctoral Studies, University of
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Bachelor's (B.S.N.), Creighton University
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Bachelor's (A.B.), University of
California-Berkeley
Master's (M.S.), University of
Washington
Doctorate (Ph.D.), University of
Washington

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Assistant Professor, English 1989
Bachelor's (B.A.), Michigan State
University
Doctorate (Ph.D.), State University of
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Doctorate (Ph.D.), University of
Oklahoma

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Professor, English 1970
English Department Head
Bachelor's (A.B.), Mississippi College
Master's (M.A.), Mississippi College
Doctorate (Ph.D.), Auburn University

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Assistant Professor, Physical Education
1981
Athletic Trainer
Bachelor's (B.S.), Western Illinois
University
Master's (M.A.), University of Northern
Iowa

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Professor, Business 1987
Holder, Dr. J. R. Kuhn Chair of Business
Administration
Bachelor's (B.S.), Pittsburg State
University
Master's (M.B.A.), Memphis State
University
Doctorate (Ph.D.), University of
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Bachelor's (B.A.), Pittsburg State
University
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Head Football Coach
Bachelor's (B.S.), Panhandle State
University
Master's (M.Ed.), Central State
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Bachelor's (B.S.B.A.), University of
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Master's (M.B.A.), University of Arkansas
Doctorate (Ph.D.), University of
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Bachelor's (A.B.), Universidad Tecnica
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Master's (M.B.A.), North Texas State
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Doctorate (Ph.D.), University of
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Bachelor's (B.S.), Middle Tennessee
State University
Master's (M.A.), Vanderbilt University
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1981
Women's Softball Coach
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Master's (M.S.), University of Illinois
Graduate Study, Southern Methodist
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Professor, Dean, School of Arts and
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Bachelor's (A.B.), Gustavus Adolphus
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Bachelor's (B.S.), University of Northern Colorado

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Coordinator, Writing Across the
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Graduate Study, Texas A & M
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Master's (M.Ed.), Central Missouri State
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Master's (M.S.), University of Arkansas
Graduate Study, Emporia State
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Bachelor's (B.S.E.), University of
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Master's (M.A.), University of Houston
Doctorate (Ph.D.), Oklahoma State
University
Post Doctoral Studies, Oxford
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Assistant Professor, Law Enforcement
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Bachelor's (B.S.), Northeast Missouri
State University
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Bachelor's (M.A.), Case Western Reserve
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Bachelor's (B.A.), Washburn University
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Bachelor's (B.S.), Southwest Missouri
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Bachelor's (B.S.), Brigham Young
University
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Instructor, Physical Education 1988
Women's Volleyball Coach
Bachelor's (B.S.E.), Southern Nazarene
University
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Instructor, Computer Science 1985
Bachelor's (B.A.), Texas A & M
University
Master's (M.Ed.), Southwest Texas State
College
Graduate Study, Incarnate Work
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Certified Data Processor (CDP)
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Assistant Professor, Physical Education
1976
Head Baseball Coach
Bachelor's (B.S.E.), Pittsburg State
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Bachelor's (B.S.), Missouri Southern
State College
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University
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University

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Psychology Department Head
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Associate Professor, English 1983
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University
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Instructor, Dental Science 1987
Bachelor's (B.S.), University of Missouri

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Bachelor's (B.S.), University of Kentucky
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1976
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Bachelor's (B.S.E.), Kansas State College
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Administration & Faculty

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Bachelor's (B.S.), Missouri Southern
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Emeritus Faculty

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State University
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Bachelor's (B.S.), Pittsburg State
University
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Bachelor's (B.S.), University of Missouri
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Bachelor's (B.S.), Pittsburg State
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Bachelor's (A.B.), Greensboro College
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Bachelor's (B.S.), University of Missouri
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in all financial dealings.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical analysis performed.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings of the research. The data shows a clear trend of increasing activity over time.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results have significant implications for the field of study and may lead to further research in this area.

5. The fifth part of the document concludes the study. It summarizes the main findings and provides a final statement on the importance of the research.

Honors Program Application

Name Miss
Ms.
Mrs.
Mr. _____
Last First Initial

Social Security No: _____ Telephone No: (____) _____
(Area Code)

Address: _____
Street Town State Zip

ACT Composite Score: _____
 Have you been admitted to MSSC? Yes ☐ No ☐
 If not, please apply at once.

Have you applied for financial aid? Yes ☐ No ☐
 If not, please consider doing so.

High School: _____ GPA: _____

Year of Graduation: _____ Class Standing: _____/_____

Intended Major: _____

For already enrolled or transfer student

College or University Attended: _____

Hours Completed: _____ GPA: _____

Quarter System _____

Semester System _____

Check below if one applies.

- ☐ National Merit Finalist
☐ National Merit Semi-Finalist
☐ National Merit Letter of Commendation

Please list extracurricular activities and interests below.
 Attach a separate sheet if necessary.

For office use only:

Incoming Freshman ☐

Already Enrolled ☐

Transfer Student ☐

Transcript _____

ACT Scores _____

Letters of recommendation:

High school principal _____ 1

High school teacher _____ 2

Essay _____

Interview _____

Action taken:

Signature Date

INSTRUCTIONS

REQUIREMENTS

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

APPLICATIONS PROCEDURES

Incoming Freshman

- *A completed APPLICATION FORM must be filed.
- *Please request that an official high school TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately, or on your transcript.
- *Arrange to have two LETTERS OF RECOMMENDATION sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

- *A completed APPLICATION FORM must be filed.
- *Please request that an official college TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately or on your transcript.
- *Arrange to have two LETTERS OF RECOMMENDATION from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 15; for the spring semester all materials should be received by November 15.

Send all application materials to:

Honors Program Director
Missouri Southern State College
Joplin, MO 64801-1595
Telephone: Toll free in Missouri 1-800-492-4811
Telephone: In Joplin 1-417-624-8100

Missouri Southern State College is an equal opportunity and affirmative action institution.

The college reserves the right to amend regulations when necessary.

Office Use Only

Missouri Southern State College

Please complete application on **both** sides3950 Newman Roads
Joplin, Missouri 64801-1595
417-625-9300

Scholarship Application

Note: By filing this form along with the Missouri Southern State College Financial Aid Application, you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

- How to apply:**
1. Must apply or have applied for admission.
 2. Complete application and a Missouri Southern State College Financial Aid Application.
 3. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Jr. College Transfer Scholarships. Please contact the Financial Aids Office at Missouri Southern State College.).
 4. **Type** or **Print** application

Name _____
First Middle or Initial Last Maiden

Social Security Number _____ Phone _____

Address _____
Number of Street City State Zip County

Male _____ Female _____ Married _____ Single _____

Date of High School Graduation _____

High School Attended _____ City/State _____

Entering Freshman _____ Freshman _____ Sophomore _____ Junior _____
(0 hrs) (1-29 hrs) (30-59 hrs) (60-89 hrs)Senior _____ *Transfer _____ *College last attended _____
(90 plus hrs) (new transfers only)

Educational Major _____ Minor _____

Circle criteria which apply to you.

1. Career choice is mental health.
2. Student Nurses' Association (SNA)
3. Interested in medical profession
4. Speech and debate
5. Work with handicapped children
6. Freeman Hospital employee
7. Piano major
8. Rainbow member
9. Father or Grandfather Lions Club Member
10. Interested in technology major
- *11. Minority (optional): Black (non-hispanic); White (non-hispanic); American Indian; Hispanic; Asian; other (please circle)

*Some scholarships may have criteria based on minority.

Entering Freshmen or New College Transfer Students only—

Application will not be processed unless this section is completed and signed by your HS counselor/principal or College Registrar.

High School GPA on a 4.00 grade point system

(Hs) 7th semester GPA: _____

(College) Last Semester completed GPA: _____

Signature _____ Title _____

Date _____

Please do not send transcript to Financial Aid Office

Are you receiving any of the following scholarships?

President's _____ Regents' _____ Performing Aids _____ Athletic _____ Honors _____

Deans' _____ Other (List) _____

Are you currently employed? _____ If yes, list place of employment. _____

(If dependent) Father's employer _____

(If dependent) Mother's employer _____

(If married) Spouse's employer _____

Note: Please complete the following:

Scholastic honors: _____

Activities: _____

Organizations: _____

Volunteer Work: _____

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed, or handicap.

Statement of Certification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State College to permit the donor of the scholarship to review my scholarship record files.

I understand that in order to receive assistance from the scholarship program administered by Missouri Southern State College I must maintain satisfactory academic progress.

I further understand that application to the scholarship program **must** be turned in prior to **April 1**.

- Note:**
1. Students may not receive more than one scholarship issued by the College. This includes the Honors, President's, Regents', Jr. College, Deans, and Patrons Scholarship Program. Outstanding students who receive more than one scholarship must choose which award they will accept unless special approval is made by the Director of Student Financial Aid.
 2. Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.
 3. All scholarships are issued for one year only.
 4. All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.

Date Signed _____ Signature _____

Application for Admission

\$10.00 application fee is required for first time students only.

1. Name (Print) _____
(Last) (First) (Middle) (Maiden or Former Names)

2. Social Security Number (Required) _____

3. Sex: (Circle) Male Female Are you a veteran? Yes No Are you eligible for VA Educational benefits? Yes No

4. Date of Birth: Month: _____ Day: _____ Year: _____

5. Residency Status: Permanent mailing address

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

How long have you resided at the above address? _____

6. Are you a U.S. Citizen? Yes No If no, what visa do you hold? _____

If no, country of birth _____ Major _____

7.a Student Status (Circle)

First Time Student (At College Level)

Transfer Student (Attended any other college)

Former Student of MSSC or Joplin JUCO

Post Graduate

Credit in Escrow (permission of authorized
High School Official)

Transient (Summer Only) (Letter of approval from
attending college)

b Credit hours completed (Circle) 0-29 (Fresh.) 30-59 (Soph.) 60-89 (Jr.) 90 or more (Sr. or Graduate)

8. Admission Status (Circle) A. Regular* B. Other**:

*Degree seeking student

1. Temporary

2. Special

3. Transient

4. Credit in Escrow

5. Continuing Ed

6. Workshop

7. Audit

8. _____

**Note: "Students checking one of the other categories are not eligible for financial aid and do not meet admissions requirements (See Catalog).

9.a Are you currently on suspension from any college? (Circle) Yes No

b Have you ever been convicted of a felony? (Circle) Yes No

If you answered yes on item 9a or 9b, please explain the situation on the back of this application.

10. The college term in which you expect to enroll:

Fall 19 _____ Spring 19 _____ Summer 19 _____

11. High school date of graduation 19 _____ or date GED passed 19 _____

12.

(Name of High School)

(City)

(State)

Are you a mid-term high school graduate? (Circle) Yes No Have you been immunized against?

13. Admission and transcript requirements on back side.

Measles _____ Yes _____ No Rubella _____ Yes _____ No

14. COLLEGES ATTENDED: PUT MOST RECENT ON THE TOP LINE

NAME	LOCATION	DATES ATTENDED	
		FROM	TO

15. What is your racial background? American Indian or Alaskan Native _____ Asian or Pacific Islander _____
Black/Negro _____ Caucasian White _____ Is your ethnic heritage Hispanic? Yes _____ No _____

16. In case of emergency (Next of kin) _____

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

"Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex, or age in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of its programs and activities, as specified by Federal laws and regulations. The Assistant to the President is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1967."

"Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Assistant to the President, who in conjunction with the office of the Vice President for Academic Affairs will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President."

17. I certify that the information provided is complete and correct to the best of my knowledge.

18.

Signature

Date Submitted

Housing Information

On campus residence requirements

All freshmen and sophomores are required to live in the Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life.

General information

Missouri Southern houses over 600 students on campus. The two main residence halls are Webster Hall (200 men, 25 women) and South Hall (115 women). In addition, there are two women's annex halls with 32 women living in single room occupancy. Apartment-style units house an additional 280 students.

The rooms on campus are furnished with twin size beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, draperies, and night stands. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The residence halls are staffed by two full time professional Head Residents who are assisted by a paraprofessional staff of 19 Staff Assistants.

Resident students are also entitled to Food Service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call: Housing Office
Missouri Southern State College
(417) 624-8100, ext. 222
Missouri Residents call our toll free
number 1-800-492-4811

or write: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595

Request for application

Complete and return the form below to receive an Application for Housing.

Name _____ Date _____
(Last) (First) (Middle)

Address _____
(Street) (City) (State) (Zip Code)

Telephone _____

Detach and return this form to: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595



Joplin, Missouri 64801-1595

Phone: 417-625-9300, after hours 417-782-MSSC

For admissions and financial aid information in Missouri call toll free 1-800-492-4811